



Science, Technology, Engineering, and Mathematics Education Center Project

Draft Environmental Impact Report

SCH #2022020343

prepared by

University of California, Riverside (UCR) and Riverside Unified School District (RUSD)

1223 University Avenue, Suite 240

Riverside, California 92521

Contact: Stephanie Tang, Assistant Director of Campus Planning

prepared with the assistance of

Rincon Consultants, Inc.

11801 Pierce Street, Suite 200

Riverside, California 92505

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Executive Summary

This document is an Environmental Impact Report (EIR) analyzing the environmental effects of the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (referred to as STEM Education Center or proposed project). This section summarizes the characteristics of the proposed project, alternatives to the proposed project, and the environmental impacts and mitigation measures associated with the proposed project.

ES-1 Project Synopsis

This EIR has been prepared to examine the potential environmental effects of the proposed project. The following is a summary of the full project description, which can be found in Section 2, *Project Description*.

ES-2 Project Location

For the purposes of this EIR, the project site encompasses five non-contiguous areas in close proximity to each other – the proposed location of the Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (referred to as STEM Education Center or proposed project), the T-Mobile Cell Tower Relocation Area, the electrical feeder line upgrade alignment, the sewer extension alignment, and the associated improvements area.

The proposed location of the STEM Education Center is on two parcels – Assessor’s Parcel Numbers (APN) 250-220-003 and 250-220-008. This area is approximately seven acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive on UCR’s East Campus (956 Blaine Street, Riverside, California 92507), adjacent to the UCR Baseball Complex. The associated improvements area is also located on APN 250-220-008. The associated improvements area is approximately 0.7 acre in size and is located on top of the underground Gage Canal, between the UCR Baseball Complex and the proposed location of the STEM Education Center. Existing surrounding uses to the STEM Education Center and the associated improvements area include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Existing uses on Canyon Crest Drive include the mostly undeveloped North District Development area located to the east;¹ Falkirk Apartments for student housing and a portion of the Gage Canal to the south; REACH Leadership STEAM Academy, a church, and a portion of the underground Gage Canal to the southwest; and the UCR Baseball Complex and underground Gage Canal to the west.

¹ The UCR North District Development (NDD) Phase 1 located at the southeastern portion of the NDD area, which includes approximately 1,500 student beds, was completed in summer 2021. The NDD Phase 2 located at the western and a portion of the central NDD area includes approximately 1,600 student beds, ancillary amenity spaces, a Central Park, surface parking, recreational fields, and associated landscape and hardscape improvements; and is currently under construction. Construction of the future phases of the North District area (e.g., residence hall beds, apartment beds, dining facilities, recreation) will be determined at a later date pending demand and funding.

The T-Mobile Cell Tower Relocation Area is located on an approximately 2,400-square-foot area located at the UCR Baseball Complex on APN 250-220-006. The T-Mobile Cell Tower Relocation Area is approximately 130 feet to the west of the location of the proposed STEM Education Center. Existing surrounding uses of the T-Mobile Cell Tower Relocation Area are similar to those of the STEM Education Center. Additional existing surrounding uses to the T-Mobile Cell Tower Relocation Area uses include the underground Gage Canal to the east, the Park Hill Apartments to the north across Blaine Street, and Parking Lot 26 to the west.

The proposed electrical feeder line upgrade alignment is an approximately 1,900-linear-foot alignment located within the public rights-of-way of Canyon Crest Drive and Blaine Street near the location of the proposed STEM Education Center. The alignment traverses the Gage Canal, which crosses under Blaine Street. The electrical feeder line upgrade alignment is surrounded by similar land uses as the location of the proposed STEM Education Center, as described above, including the mostly undeveloped North District Development area to the east; the Stonehaven Apartments for student housing and a mix of church, apartments, and commercial uses to the north/northeast/northwest; and the location of the proposed STEM Education Center to the west and south.

The sewer line extension alignment is an approximately 175-foot-long alignment located within the public right of way of Canyon Crest Drive near the southeastern location of the proposed STEM Education Center. The sewer line extension alignment is surrounded by similar land uses as the location of the proposed STEM Education Center and electrical feeder line upgrade alignment, as described above, including the mostly undeveloped North District Development area to the east; Falkirk Apartments for student housing to the west and southwest; and the location of the proposed STEM Education Center to the west and northwest.

ES-3 Project Characteristics

The proposed project entails development of an approximately 80,000-gross square-foot, three-story, approximately 50-foot-tall school facility that would contain classrooms, lecture facilities, a multi-use discovery center, a fabrication lab, food service, a fitness center, administrative offices, outdoor learning areas, landscape, hardscape, and associated site improvements. The proposed project is expected to serve a capacity of approximately 800 students at any given time, approximately 1,200 students daily (400 full-time and 800 part-time students), and approximately 60 faculty and staff. Upon completion of the proposed project, students in grades 9 through 12 that are currently enrolled at the existing STEM facility at the former Hyatt Elementary School site would be relocated to the proposed STEM Education Center while the existing Hyatt Elementary School would continue to serve grades 5 through 8.

The proposed project would include an approximately 153-space surface parking lot located in the southern portion of the proposed STEM Education Center as well as a private bus lane for student drop-off/pick-up and a parent lane for student drop-off/pick-up. The main vehicle entry point would be located off Canyon Crest Drive and would lead cars into the parking lot area. A school drop-off lane would be provided by the front (south side) of the main building, which would be accessible from the main vehicle entry point. A second driveway would be located off Canyon Crest Drive, approximately 80 feet south of the main vehicle entry point. The second driveway would be accessible to school buses and service vehicles only, including UCR vehicles, which would circulate in one direction by entering from the Canyon Crest Drive driveway and exiting from the Blaine Street driveway (located in the northwest corner of the project site). The project would be served by

Riverside Public Utilities for water and electricity and by City of Riverside Public Works for sewer; Southern California Gas for natural gas; and RUSD's Maintenance, Operations, and Transportation Division for solid waste.

The proposed project would also involve a variety of associated modifications to existing facilities and infrastructure to accommodate site development, including removal of the existing open recreational fields (two baseball diamonds, bleachers, lighting), decommissioning and relocation of the existing T-Mobile Cell Tower, relocation/replacement of on-site utilities, and installation of an electrical feeder line upgrade (approximately 1,900 linear feet) and a sewer line extension (approximately 175 feet) located within the public rights-of-way of Canyon Crest Drive and Blaine Street. Grading within the City's right-of-way along Blaine Street and Canyon Crest Drive would occur during site preparation and grading to install the proposed driveways. In addition, a traffic signal would be installed at the main project driveway on Canyon Crest Drive to allow for protected turns into and out of the project site. A stop sign would be installed at the second driveway.

Construction Activities

For purposes of this EIR, construction activities are anticipated to begin around January 2026 (contingent on State approval) and last for approximately 32 months. Construction activities would include:

- Demolition (approximately 30 days)
- Site Preparation (approximately 45 days)
- Grading (approximately 45 days)
- Building Construction (approximately 20 months)
- Architectural Coating (approximately 180 days)
- Paving (approximately 60 days)

Approximately 29,500 square feet of asphalt (0.67 acre) would be demolished during construction, resulting in approximately 590 tons of demolition material. Approximately 250,000 square feet (5.7 acres) of the project site would be graded. Approximately 33,000 cubic yards of soil would be excavated (cut) and 33,000 cubic yards would be required for fill during grading activities. No soil import or export would be required. Approximately 146,597 square feet of the project site would be surfaced with asphalt and concrete. The maximum depth of ground disturbance during project construction would be approximately six feet.

Green Building Features

The proposed project's overall design would meet minimum Leadership in Energy and Environmental Design (LEED) Silver certification, which would be achieved by using less water and energy and reducing greenhouse gas emissions compared to a non-certified LEED commercial building. A building can earn credits toward LEED certification through performance in five key areas including sustainable sites, water savings, energy and atmosphere, materials and resources, and indoor environmental quality. Solar panels and water conservation elements would be incorporated into the project design to reduce the building's energy utilization and achieve LEED certification. Half of the roof would contain solar panels to capture solar energy.

ES-4 Project Objectives

The objectives of the RUSD STEM Education Center are to:

- Establish a flagship STEM education facility at a safe and secure location within the RUSD to meet the emerging science, technology, engineering, and mathematics needs and demands of RUSD’s service population where students can learn to grow into careers in these fields;
- Promote, foster, and enrich an early college environment through co-location of the STEM education facility with a research and science-based institution such as UCR to facilitate collaboration;
- Improve access for approximately 1,200 RUSD students every school year to a state-of-the-art STEM education facility while limiting disruption to existing RUSD facilities;
- Provide a STEM site to support students in grades 9 through 12, with adequate support spaces, multi-functional indoor and outdoor spaces, amenities, and associated infrastructure while meeting applicable UCR and UC policies and guidelines;
- Enhance the high-school student experience by integrating in-class academic STEM curriculum with hands-on interactive practicum opportunities on campus and improved student-to-student collaboration;
- Promote environmental and sustainability principles through efficient use of space and thoughtful building and landscape designs that integrate and enhance the existing neighboring communities; and
- Develop the UCR East Campus in a manner compatible with land uses identified in the UCR Long Range Development Plan.

ES-5 Alternatives

CEQA Guidelines Section 15126.6, as amended, mandates that all EIRs include a comparative evaluation of the proposed project with alternatives to the project that can attain most of the project’s basic objectives but would avoid or substantially lessen any of the significant effects of the project. CEQA requires an evaluation of a “range of reasonable” alternatives, including the “no project” alternative. The following provides brief descriptions of the alternatives evaluated in this EIR. See Section 6, *Alternatives*, for full details.

- Alternative 1: No Project
- Alternative 2: Modified Enrollment
- Alternative 3: Renovation/Expansion of Existing STEM Academy at Mt. Vernon Site

Alternative 1 (No Project)

Alternative 1 assumes the proposed RUSD STEM Education Center would not be constructed. The current land uses on the project site, which consist of open recreational fields, the T-Mobile and Sprint Cell Towers², and surface parking, would remain in place under this alternative. The T-Mobile Cell Tower would not be re-located, and the proposed utilities improvements in Blaine Street and Canyon Crest Drive would not be installed. The open recreational fields would continue to be utilized by UCR intramural and club sport teams; however, the existing joint-use agreement

² The existing Sprint/Crown Castle Cell Tower is planned to be decommissioned independently of the proposed project, and no replacement is proposed.

between the UC Regents and the City of Riverside for use of the open recreation field would still terminate on September 16, 2027. The No Project Alternative would not fulfill the majority of the Project Objectives because a flagship STEM education facility serving 1,200 students in grades 9 through 12 within RUSD co-located with a research and science-based institution would not be constructed.

Summary of Environmental Impacts of Alternative 1 – No Project Alternative

All environmental impacts under this alternative would be similar or less than those of the proposed project. In particular, this alternative would avoid the significant but mitigable impacts in the areas of aesthetics, biological resources, cultural resources, paleontological resources, hazards and hazardous materials, noise, tribal cultural resources, and wildfire, and none of the mitigation measures recommended for the proposed project would apply. Overall, this alternative's impacts would be less than those of the proposed project, and this alternative would avoid the project's significant but mitigable impacts. Overall, Alternative 1 would be the environmentally superior alternative.

Alternative 2 (Modified Enrollment)

Under Alternative 2, the proposed RUSD STEM Education Center would be constructed at the same project site. However, the school would accommodate approximately 390 full-time students and 820 part-time students (total enrollment of approximately 1,210 students) instead of the approximately 400 full-time students and 800 part-time students (total enrollment of approximately 1,200 students) that would be accommodated by the proposed project. Despite the modified number of part-time and full-time students, this alternative would accommodate the same number of full-time equivalent students (800) as the proposed project. The STEM Education Center would have a similar building square footage and height as the proposed project. In addition, similar to the proposed project, this alternative would also require re-location of the existing T-Mobile Cell Tower to the northeastern corner of the adjacent UCR Baseball Complex, installation of electrical and sewer utilities improvements along Canyon Crest Drive and Blaine Street, and work within the associated improvements area. The general construction and operational parameters of Alternative 2 would be similar to those of the proposed project. However, although the number of full-time equivalent students would remain the same, the decrease in full-time students and increase in part-time students would result in fewer students being individually dropped off by parents or driving to school and more students riding the bus as compared to the proposed project.

Summary of Environmental Impacts of Alternative 2 – Modified Enrollment Alternative

Alternative 2 would result in a decrease in full-time students from 400 full-time students under the proposed project to 390 full-time students and an increase in part-time students from 800 part-time students under the proposed project to 820 part-time students under Alternative 2. The decrease in full-time students and increase in part-time students would result in fewer students being individually dropped off by parents or driving to school and more students riding the bus as compared to the proposed project. As a result, this alternative would result in slightly reduced impacts to multiple environmental areas of concern, including air quality, energy, greenhouse gas emissions, and transportation. Impacts to aesthetics, agriculture and forestry resources, biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public

services, recreation, tribal cultural resources, utilities and service systems, and wildfire would be similar as compared to the proposed project.

This alternative would meet all project objectives by establishing a flagship, state-of-the-art STEM education facility with an enrollment capacity of 1,200 RUSD students co-located with UCR at a safe and secure location with limited disruption to existing RUSD facilities. Alternative 2 would also fulfill project objectives related to providing a STEM site to support students in grades 9 through 12 with adequate support spaces, multi-functional indoor and outdoor spaces, amenities, and associated infrastructure; integrating in-class academic STEM curriculum with hands-on interactive practicum opportunities on campus and improved student-to-student collaboration; promoting environmental and sustainability principles; and develop the UCR East Campus in a manner compatible with land uses identified in the UCR Long Range Development Plan. Therefore, of those alternatives that are not the “No Project” alternative (Alternative 1), Alternative 2 (Modified Enrollment) is considered the environmentally superior alternative.

Alternative 3 (Renovation/Expansion of Existing STEM Academy at Mt. Vernon Site)

Under Alternative 3, the proposed RUSD STEM Education Center would not be constructed at the project site. Instead, the enrollment capacity of the existing STEM Academy located at 4466 Mt. Vernon Avenue in Riverside (Mt. Vernon site) would be expanded, either by building a new campus at this location or by modernizing the current campus with new buildings. Under this alternative, enrollment at the existing STEM Academy would be increased by approximately 200 students in grades 9 through 12 to a total capacity of 800 students in grades 5 through 12. The degree to which the existing campus could be expanded would be limited by the size of the site and challenging topographical constraints that would require significant grading to facilitate development. The current uses on the project site (open recreational fields, T-Mobile Cell Tower, and surface parking) would remain in place and would continue to be utilized in the same manner as under existing conditions. The open recreational fields would continue to be utilized by UCR intramural and club sport teams; however, the existing joint-use agreement between the UC Regents and the City for use of the open recreation field would still terminate on September 16, 2027.

Summary of Environmental Impacts of Alternative 3 – Renovation/Expansion of Existing STEM Academy at Mt. Vernon Site Alternative

Alternative 3 would be constructed at a different site than the proposed project. Alternative 3’s construction activities would likely be more intensive than those of the proposed project due to the potentially substantial grading activities that would be required to facilitate development on the Mt. Vernon site due to topographical constraints. In addition, due to the volume of undisturbed soils that would likely be disturbed during grading activities, impacts to paleontological resources would potentially be greater. Alternative 3 would also expand the footprint of the existing STEM Academy into previously undeveloped areas, which may impact sensitive natural communities, special status species and their habitat, and cultural/tribal cultural resources. Furthermore, the existing STEM Academy includes buildings that are of historic age. If these buildings are determined to be historical resources, the demolition and/or renovation activities proposed under Alternative 3 may result in a substantial adverse change in the significance of a historical resource. Therefore, impacts to air quality, biological resources, cultural resources, geology and soils, hydrology and water quality, and tribal cultural resources would be greater under Alternative 3 than the proposed project, and some impacts may be significant and unavoidable.

Alternative 3 would also be inconsistent with the Southern California Association of Government's 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy because it would result in a net increase in the regional average vehicle miles traveled (VMT) per service population and thus cause total VMT for the Western Riverside Council of Governments region to exceed the future forecast VMT from the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy. Therefore, impacts to greenhouse gas emissions, land use and planning, and transportation under the proposed project would potentially be greater than the proposed project under Alternative 3.

Lastly, Alternative 3's site is located in a residential neighborhood in a Very High Fire Hazard Severity Zone and adjacent to a State Responsibility Area. Due to the introduction of additional students at the site, Alternative 3 would result in potentially significant but mitigable impacts to emergency response and evacuation plans, which would be greater than the impacts of the proposed project. Alternative 3 would involve a greater risk of exposure to wildland fires and wildfire hazards as compared to the proposed project due to Alternative 3's location in a Very High Fire Hazard Severity Zone and proximity to a State Responsibility Area. As a result, impacts to hazards and hazardous materials and wildfire under Alternative 3 would be greater than the proposed project.

This alternative would meet the project objective of establishing a flagship, state-of-the-art STEM education facility at a safe and secure location; providing a STEM site to support students in grades 9 through 12 with adequate support spaces, multi-functional indoor and outdoor spaces, amenities, and associated infrastructure; integrating in-class academic STEM curriculum with hands-on interactive practicum opportunities on campus and improved student-to-student collaboration; and promoting environmental and sustainability principles. However, Alternative 3 would not meet the project objectives of providing a STEM education facility with an enrollment capacity of 1,200 students co-located at a research and science-based institution such as UCR.

Overall, Alternative 3 would result in greater impacts to air quality, biological resources, cultural resources, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, transportation, tribal cultural resources, and wildfire. This alternative would result in reduced impacts to recreation and utilities/service systems, and similar impacts to all other environmental resources (aesthetics, agriculture and forestry resources, energy, mineral resources, noise, population and housing, and public services) as compared to the proposed project. Alternative 3 would not be considered the environmentally superior alternative.

ES-6 Areas of Known Controversy/Issues to Be Resolved

UCR circulated a Notice of Preparation (NOP) of the EIR for a 30-day public review period starting on February 16, 2022 and ending March 18, 2022. UCR distributed the NOP to the State Clearinghouse, responsible agencies, and other interested parties. UCR held an EIR Public Scoping Meeting on March 9, 2022 to provide information about the proposed project and the CEQA process to members of public agencies, interested stakeholders, and residents/community members.

UCR received 60 letters in response to the NOP, and a total of 24 speaker cards were submitted at the Scoping Meeting with 20 speakers present and four speakers not physically present. Table ES-1 provides the names of the NOP commenters. The letters and a transcript of verbal comments are included in Appendix A.

Table ES-1 NOP Commenters

Name of Commenter	Name of Commenter	Name of Commenter
State Agencies (Alphabetical)		
California Department of Toxic Substances Control (DTSC)	Native American Heritage Commission (NAHC)	
Local Agencies (Alphabetical)		
City of Riverside	Foundation RSA (Riverside STEM Academy) (two letters)	Inland Empire Biking Alliance
Rincon Band of Luiseño Indians	Riverside County Clerk	South Coast Air Quality Management District (SCAQMD)
Individual Comments – Written (Alphabetical by First Name)		
Anthony Noriega	Barbara Robinson	Brad Alewine
Brian Jaramillo	Bud and Claudia Luppino	Candace and Tom Spiel
Carl E. Rowe	Carla Lidner and Bradley Baum	Charles Morehead
Cheryl-Marie Hansberger	Chris Lynch	Cindy Foster
Collette and Gary Lee	David Bristow	Diane Kwasman
Donald M. Blackman	Gilberto Esquivel	Gordon Bourns
Harkeerat Dhillon	Heather Champagne	Holly Redfern
Irving Hendrick	James L. Antoyan	Jeannene Johnson Kelly
Jesse Valenzuela	Jessika Shields	John and Trish Field
Kelli Tyson Stockton	Kevin Dawson	Kevin Kelly
Laura Merickel	Lawrence T. Geraty (La Sierra University)	Linda Scott Hendrick
Maria Anguiano	Mary Jean Comadena	Matthew Webb
Melody Clark	Mike Downs	Mike Marlatt
Nick Goldware	Patricia Alfaro	Paul Foster
Rich Davis (two letters)	Roger Turner	Stan Morrison
Stephen E. Smith	Virginia Blumenthal	William H. Grover
William R. Bailey Jr.	Yolanda Esquivel	
Individual Commenters - Verbal at Scoping Meeting (in Order of Speaking)		
Bahram Mobashar	Sue Johnson	Sala Ponnech for Yolanda Esquivel
Diane Kwasman	Nicole Fournier	Anthony Noriega
Stan Morrison	Melody Clark	Joshua Zonker
Maribel Nunez	Sammie Luna	Roger Turner
Richard Davis for Wendy Crockett	Richard Davis for Sarah Scott ¹	Richard Davis for Molly Williams
Richard Davis	Richard Davis for Jill Johnson Young	Sarah Simpson
Gilberto Esquivel	Amit Roy-Chowdhury	Kevin Dawson
Gordon Bourns	Clarissa Cervantes	Kathleen Barth

¹ Commenter did not speak for this speaker card because he ran out of the allotted time to speak.

ES-7 Summary of Impacts and Mitigation Measures

Table ES-2 summarizes the environmental impacts of the proposed project, mitigation measures, and residual impacts (the impact after application of the mitigation measure(s), if required). Impacts are categorized as follows:

- **Significant and Unavoidable.** An impact that cannot be reduced to below the threshold level given reasonably available and feasible mitigation measures. Such an impact requires a Statement of Overriding Considerations to be issued if the project is approved pursuant to CEQA Guidelines Section 15093.
- **Less than Significant with Mitigation Incorporated.** An impact that can be reduced to below the identified impact threshold level if proposed mitigation measures are adopted. If proposed mitigation measures are not adopted, such impacts would be significant and unavoidable. Such an impact requires findings under CEQA Guidelines Section 15091.
- **Less than Significant.** An impact that may be adverse but does not exceed the identified impact threshold level and does not require mitigation measures.
- **No Impact:** The proposed project would have no effect on environmental conditions or would reduce existing environmental problems or hazards.

Table ES-2 Summary of Environmental Impacts, Mitigation Measures, and Residual Impacts

Impact	Mitigation Measure(s)	Residual Impact
Aesthetics		
<p>Impact AES-1 Implementation of the proposed project would not have a substantial adverse effect on a scenic vista. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact AES-2 Implementation of the proposed project would not substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway. No impact would occur, and no mitigation measures are required.</p>	None required	No impact
<p>Impact AES-3 Implementation of the proposed project would not conflict with applicable University of California, Riverside and City of Riverside regulations governing scenic quality. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact AES-4 Implementation of the proposed project would potentially create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area. Therefore, implementation of Mitigation Measures MM AES-1 and MM AES-2 would be required to reduce impacts to less than significant.</p>	<p>MM AES-1 Minimization of Light and Glare. Site-specific consideration of the orientation of the building, use of landscaping materials, lighting design, and choice of primary façade materials shall be incorporated to minimize potential offsite spillover of lighting and glare from new development. Specifically, prior to project approval, the University of California, Riverside shall require the incorporation of site- and project-specific design considerations (to be included in the lighting plans) to minimize light and glare, including, but not limited to, the following:</p> <ul style="list-style-type: none"> ▪ New outdoor lighting adjacent to on-campus residences and adjacent off-campus sensitive uses shall utilize directional lighting methods with full cutoff type light fixtures (and shielding as applicable) to minimize glare and light spillover. ▪ All elevated light fixtures such as in parking lots shall be shielded to reduce glare. ▪ Landscaped buffers shall be provided where on-campus student housing and off-campus residential neighborhoods might experience noise or light from UCR activities. ▪ All lighting shall be consistent with the Illuminating Engineering Society of North America Lighting Handbook. 	Less than significant with mitigation incorporated

Impact	Mitigation Measure(s)	Residual Impact
	<ul style="list-style-type: none"> ▪ The University of California, Riverside Planning, Design, & Construction and Transportation and Parking Services staff shall review all exterior lighting design for conformance with the Campus Design and Construction Standards. <p>Verification of inclusion in project design shall be provided at the time of design review and lighting plans shall be reviewed and approved prior to project-specific design and construction document approval.</p> <p>MM AES-2 Minimization of Vehicle Lighting. Ingress and egress from new parking areas shall be designed and situated to direct vehicular headlights away from adjacent residential uses, as necessary. Walls, landscaping, or other light barriers and shielding shall be provided where appropriate. Site plans shall be reviewed and approved as part of project-specific design and construction document approval.</p>	
Agriculture and Forestry Resources		
<p>Impact AG-1 Implementation of the proposed project would not result in the conversion of Farmland to non-agricultural use; would not conflict with existing zoning for agricultural use or a Williamson Act contract; and would not impact or result in the loss of forest land or timberland because none exist on the project site. Therefore, the proposed project would have no impact on agriculture and forestry resources, and no mitigation measures would be required.</p>	None required	No impact
Air Quality		
<p>Impact AQ-1 Implementation of the proposed project would not conflict with or obstruct implementation of the applicable air quality plan. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact AQ-2 Implementation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant

Impact	Mitigation Measure(s)	Residual Impact
<p>Impact AQ-3 Implementation of the proposed project would not expose sensitive receptors to substantial pollutant concentrations from carbon monoxide hotspots or TACs. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact AQ-4 Implementation of the proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Biological Resources</p>		
<p>Impact BIO-1 Implementation of the proposed project would potentially have a substantial adverse effect, either directly or through habitat modifications, on species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by California Department of Fish and Wildlife or United States Fish and Wildlife Service. Therefore, implementation of Mitigation Measures MM BIO-1, MM BIO-2, and MM BIO-3 would be required to reduce impacts to less than significant.</p>	<p>MM BIO-1 Nesting Bird Avoidance. Prior to issuance of the project’s grading permit, the following measures shall be implemented:</p> <ul style="list-style-type: none"> ▪ To avoid disturbance of nesting and special-status bird species protected by the Migratory Bird Treaty Act and California Fish and Game Code, activities related to the project, including but not limited to, vegetation removal, ground disturbance, and construction and demolition shall occur outside of the bird breeding season (February 15 through August 31). If construction must be initiated during the nesting season, vegetation and/or tree removal should be planned to occur outside the nesting season (September 1 to February 14) and a preconstruction nesting bird survey shall be conducted no more than three days prior to initiation of construction activities. The nesting bird preconstruction survey shall be conducted on foot inside the project disturbance areas and an additional buffer surrounding the project disturbance areas of at least 100 feet, where accessible and using binoculars to survey inaccessible areas as needed. If no nests or an inactive avian nest is found, construction may proceed. If an active avian nest is discovered during the preconstruction clearance survey, construction activities shall stay outside of a 50- to 200-foot buffer for common nesting birds around the active nest, as determined by a biologist. For listed and raptor species, this buffer shall be expanded to 500 feet or as determined by a biologist. ▪ Inaccessible areas, such as areas located high up in trees or private properties, shall be surveyed from afar using binoculars. The survey shall be conducted by a qualified biologist familiar with the identification of avian species known to occur in western Riverside County. If nests are found, an appropriate avoidance buffer shall be determined by a qualified biologist and demarcated by a qualified biologist with bright orange construction fencing, flagging, construction lathe, or other means to mark 	<p>Less than significant with mitigation incorporated</p>

Impact	Mitigation Measure(s)	Residual Impact
	<p>the boundary. Effective buffer distances are highly variable and based on specific project stage, bird species, stage of nesting cycle, work type, and the tolerance of a particular bird pair. The buffer may be up to 500 feet in diameter, depending on the species of nesting bird found and the biologist's observations.</p> <ul style="list-style-type: none"> ▪ If nesting birds are located adjacent to the project site with the potential to be affected by construction activity noise above 60 dBA L_{eq} (see Section 4.13, <i>Noise</i>, for definitions and discussions of noise levels), a temporary noise barrier shall be erected consisting of large panels designed specifically to be deployed on construction sites for reducing noise levels at sensitive receivers. If construction activities result in a noise level in excess of 60 dBA L_{eq} at the active nest, an acoustician shall require the construction contractor to make operational and barrier changes to reduce noise levels to 60 dBA L_{eq} during the breeding season (February 15 through August 31). Noise monitoring shall occur during operational changes and installation of barriers to ensure their effectiveness. All construction personnel shall be notified as to the existence of the buffer zone and to avoid entering the buffer zone during the nesting season. No parking, storage of materials, or construction activities shall occur within this buffer until the avian biologist has confirmed the breeding/nesting is completed, and the young have fledged the nest. Encroachment into the buffer shall occur only at the discretion of the qualified biologist, if it is determined such encroachment will not adversely impact the nesting birds. <p>MM BIO-2 Bird Strike Avoidance. To reduce bird strike mortality and injury of special-status bird species from collisions with clear and reflective sheet glass and plastic, construction of the proposed glass-fronted building or other structures using exposed glass (e.g., glass-topped walls) shall incorporate measures to minimize the risk of bird strikes, including: (1) the use of opaque or uniformly textured/patterned/etched glass, (2) angling of glass downward so that the ground instead of the surrounding habitat or sky is reflected, (3) installation of one-way film that results in opaque or translucent covering when viewed from either side of the glass, (4) installation of a uniformly dense dot pattern created as ceramic frit on both sides of the glass, and/or (5) installation of a striped or grid pattern of clear ultraviolet-reflecting and ultraviolet-absorbing film applied to both sides of the glass. It should be noted that single decals (e.g., falcon silhouettes or large eye patterns) are ineffective</p>	

Impact	Mitigation Measure(s)	Residual Impact
	<p>and are not recommended unless the entire glass surface is uniformly covered with the objects or patterns.</p> <p>MM BIO-3 Bat Preconstruction Survey.</p> <ul style="list-style-type: none"> ▪ To avoid disturbance of special-status bat species during maternity season (approximately March through September), a preconstruction roosting bat survey shall be conducted by a qualified bat biologist of potential roost habitat, structures, and mature vegetation identified by the bat biologist no more than 30 days prior to initiation of construction activities if construction activities must occur during the roosting season. A passive acoustic survey shall identify the species using the area for day/night roosting. ▪ If special-status roosting bats are present and their roost would be impacted, a qualified bat biologist shall prepare a plan to identify the proper exclusionary methods, which may include the installation of bat deterrent devices, to passively exclude roosting bats from any structures in the work areas. Implementation of proper exclusionary methods shall be overseen by the bat biologist. If it is determined that an active maternity roost is present, the roost shall not be disturbed during the breeding season (approximately March through September). If it is determined to not be an active maternity roost, the tree or structure may be removed under the guidance of the qualified bat biologist. ▪ Removal of mature trees shall occur as close to sunset as feasible to allow potential roosting bats to escape during their natural emergence times. Tree removals shall be monitored by a qualified bat biologist and shall occur by pushing down the entire tree (without trimming or limb removal) using heavy equipment and leaving the felled tree on the ground untrimmed and undisturbed for a period of at least 24 hours. 	
<p>Impact BIO-2 Implementation of the proposed project would not have a substantial adverse effect on riparian habitat or other sensitive natural communities. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact BIO-3 Implementation of the proposed project would not have a substantial adverse effect on State or federally protected wetlands through direct removal, filling, hydrological interruption, or other means. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>

Impact	Mitigation Measure(s)	Residual Impact
<p>Impact BIO-4 Implementation of the proposed project would not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact BIO-5 Implementation of the proposed project would not conflict with local policies or ordinances protecting biological resources. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact BIO-6 Implementation of the proposed project would not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved Habitat Conservation Plan. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Cultural Resources</p>		
<p>Impact CUL-1 Implementation of the proposed project would not cause a substantial adverse change in the significance of a historical resource pursuant to CEQA Guidelines Section 15064.5. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact CUL-2 Implementation of the proposed project may cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5. Implementation of Mitigation Measure MM CUL-1 would be required to reduce impacts to less than significant.</p>	<p>MM CUL-1 Unanticipated Discovery of Archaeological Resources. If previously undiscovered archaeological resources are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, University of California, Riverside Planning, Design & Construction staff shall be notified, and the find shall be evaluated by a qualified archaeologist meeting the Secretary of the Interior standards to determine whether it is a unique archaeological resource, as defined by the California Environmental Quality Act. If the find is not a unique archaeological resource, work may resume. If the find is determined to be a unique archaeological resource, the archaeologist shall make recommendations to University of California, Riverside Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to California Environmental Quality Act. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to archaeological resources. If</p>	<p>Less than significant with mitigation incorporated</p>

Impact	Mitigation Measure(s)	Residual Impact
	University of California, Riverside determines that preservation in place is not feasible, the archaeologist shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.	
Impact CUL-3 Implementation of the proposed project would not disturb any human remains, including those interred outside of dedicated cemeteries. impacts would be less than significant, and no mitigation measures are required.	None required	Less than significant
Energy		
Impact E-1 Implementation of the proposed project would not result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact E-2 Implementation of the proposed project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Geology and Soils		
Impact GEO-1 Implementation of the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact GEO-2 Implementation of the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant

Impact	Mitigation Measure(s)	Residual Impact
Impact GEO-3 Implementation of the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury or death involving seismic-related ground failure, including liquefaction. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact GEO-4 Implementation of the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury or death involving landslides. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact GEO-5 Implementation of the proposed project would not result in substantial soil erosion or the loss of topsoil. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact GEO-6 The proposed project would not be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact GEO-7 Implementation of the proposed project would not create substantial direct or indirect risks to life or property as a result of its location on expansive soil. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact GEO-8 Implementation of the proposed project would not require the use of septic tanks or alternative wastewater disposal systems. No impact would occur, and no mitigation measures would be required.	None required	No impact

Impact	Mitigation Measure(s)	Residual Impact
<p>Impact GEO-9 Implementation of the proposed project could directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. Implementation of Mitigation Measure MM GEO-1 would be required to reduce impacts to less than significant.</p>	<p>MM GEO-1 Paleontological Resources Monitoring and Mitigation. The following measures shall be implemented prior to and during project construction:</p> <ul style="list-style-type: none"> ▪ Qualified Professional Paleontologist/Paleontological Resources Impact Mitigation Plan. Prior to the initiation of ground-disturbing activities during construction, Riverside Unified School District, in coordination with University of California, Riverside, shall retain a Qualified Professional Paleontologist. A Qualified Professional Paleontologist is an individual who meets the education and professional experience standards as established by the Society of Vertebrate Paleontology (2010), which recommends the paleontologist shall have at least a master’s degree or equivalent work experience in paleontology, shall have knowledge of the local paleontology, and shall be familiar with paleontological procedures and techniques. The Qualified Professional Paleontologist shall prepare and implement a Paleontological Resources Impact Mitigation Plan for the project. The Paleontological Resources Impact Mitigation Plan shall describe mitigation recommendations in detail, including paleontological monitoring procedures; communication protocols to be followed in the event that an unanticipated fossil discovery is made during project development; and preparation, curation, and reporting requirements. A copy shall be provided to Riverside Unified School District and University of California, Riverside Planning, Design & Construction staff. ▪ Paleontological Worker Environmental Awareness Program (WEAP). Prior to the start of construction, the Qualified Professional Paleontologist or their designee shall conduct a paleontological WEAP training for construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction staff. ▪ Paleontological Monitoring. Full-time paleontological monitoring shall be conducted during ground disturbing construction activities (i.e., grading, trenching, foundation work). Paleontological monitoring shall be conducted by a paleontological monitor with experience with collection and salvage of paleontological resources and who meets the minimum standards of the Society of Vertebrate Paleontology (2010) for a Paleontological Resources Monitor. The duration and timing of the monitoring shall be determined by the Qualified Professional Paleontologist based on the observation of the geologic setting from initial ground disturbance, and subject to review and approval by University of 	<p>Less than significant with mitigation incorporated</p>

Impact	Mitigation Measure(s)	Residual Impact
	<p>California, Riverside. If the Qualified Professional Paleontologist determines full-time monitoring is no longer warranted, based on the specific geologic conditions, they may recommend monitoring be reduced to periodic spot-checking or ceased entirely.</p> <ul style="list-style-type: none"> ▪ Unanticipated Discovery of Paleontological Resources. In the event of a fossil discovery by the paleontological monitor or construction personnel, the contractor shall ensure all work in the immediate vicinity of the find is halted and University of California, Riverside/Riverside Unified School District is informed. A Qualified Professional Paleontologist shall evaluate the find before the contractor authorizes construction activity to recommence. If it is determined the fossil(s) is (are) scientifically significant, the Qualified Professional Paleontologist shall complete the following conditions to mitigate impacts to significant fossil resources: <ul style="list-style-type: none"> ▫ Fossil Salvage. If fossils are discovered, the paleontological monitor shall have the authority to halt or temporarily divert construction equipment within 50 feet of the find until the paleontological monitor and/or Qualified Professional Paleontologist evaluate the discovery and determine if the fossil may be considered significant. Bulk matrix sampling may be necessary to recover small invertebrates or microvertebrates from within paleontologically sensitive deposits. ▫ Fossil Preparation and Curation. Once salvaged, significant fossils shall be identified to the lowest possible taxonomic level, prepared to a curation-ready condition, and curated in a scientific institution with a permanent paleontological collection along with all pertinent field notes, photos, data, and maps. Fossils of undetermined significance at the time of collection may also warrant curation at the discretion of the Qualified Professional Paleontologist. ▪ Final Paleontological Mitigation Report. Upon completion of ground disturbing activity (and curation of fossils if necessary), the Qualified Professional Paleontologist shall prepare a final report describing the results of the paleontological monitoring efforts associated with the project. The report shall include a summary of the field and laboratory methods, an overview of the project geology and paleontology, a list of taxa recovered (if any), an analysis of fossils recovered (if any) and their scientific significance, and recommendations. The report shall be submitted to University of California, Riverside. If the monitoring efforts produce fossils, then a copy of the report shall also be submitted to the designated museum repository. 	

Impact	Mitigation Measure(s)	Residual Impact
Greenhouse Gas Emissions		
Impact GHG-1 The proposed project would not generate greenhouse gas emissions, either directly or indirectly, that would have a significant impact on the environment. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact GHG-2 Implementation of the proposed project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Hazards and Hazardous Materials		
Impact HAZ-1 Implementation of the proposed project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact HAZ-2 The proposed project would not create a significant hazard to the public through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. Therefore, impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact HAZ-3 The proposed project would handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school, but would not adversely affect schools as a result. Therefore, impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact HAZ-4 The proposed project would not be located on a site that is included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5. Therefore, Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant

Impact	Mitigation Measure(s)	Residual Impact
<p>Impact HAZ-5 Implementation of the proposed project would not result in a safety hazard or excessive noise for people residing or working in the project area due to proximity to an airport. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact HAZ-6 The proposed project would potentially impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Therefore, implementation of Mitigation Measures MM WF-1 would be required to reduce impacts to less than significant.</p>	<p>MM WF-1 Construction Management Plan. A construction management plan shall be prepared and implemented for the proposed project. This plan shall include information related to truck route details, detours, and emergency access and shall be reviewed and approved by University of California, Riverside prior to construction activity commencing. The construction management plan shall be prepared in accordance with the latest version of the California Manual on Uniform Traffic Control Devices and shall include the following measures:</p> <ul style="list-style-type: none"> ▪ Identify proposed truck routes to be used ▪ Include a public information and signage plan to inform student, faculty and staff of the planned construction activities, roadway changes, and parking changes ▪ Store construction materials only in designated areas that minimize impacts to nearby roadways ▪ Limit lane closures during peak hours to the extent possible. Inform UCR before any lane closures ▪ Use California Department of Transportation-certified flag persons for any temporary lane closures to minimize impacts to traffic flow and to ensure safe access into and out of the project site ▪ Install traffic control devices as specified in the California Department of Transportation Manual of Traffic Controls for Construction and Maintenance Work Zones ▪ To minimize disruption of emergency vehicle access, consult with affected jurisdictions (Campus Police, Campus Fire Marshal, TAPS, City of Riverside Police Department, and City of Riverside Fire Department) to identify detours for emergency vehicles, which will then be posted by the construction contractor ▪ Coordinate with local transit agencies for temporary relocation of routes or bus stops in work zones, as necessary 	<p>Less than significant with mitigation incorporated</p>

Impact	Mitigation Measure(s)	Residual Impact
	<ul style="list-style-type: none"> ▪ Coordinate with other projects under construction near the project site, so an integrated approach to construction-related traffic is developed and implemented 	
<p>Impact HAZ-7 The proposed project would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
Hydrology and Water Quality		
<p>Impact HYD-1 Implementation of the proposed project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact HYD-2 Implementation of the proposed project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the proposed project would impede sustainable groundwater management of the basin. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact HYD-3 Implementation of the proposed project would not substantially alter the existing drainage pattern of the site in a manner which would result in substantial erosion, siltation, or flooding; exceed the capacity of stormwater drainage systems; provide substantial additional sources of polluted runoff; or impede or redirect flood flows. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact HYD-4 Implementation of the proposed project would not risk release of pollutants due to project inundation in flood hazard, tsunami, or seiche zones. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact HYD-5 Implementation of the proposed project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant

Impact	Mitigation Measure(s)	Residual Impact
Land Use and Planning		
Impact LU-1 Implementation of the proposed project would not physically divide an established community. No impact would occur, and no mitigation measures would be required.	None required	No impact
Impact LU-2 Implementation of the proposed project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. Impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Mineral Resources		
Impact MIN-1 Implementation of the proposed project would not result in the loss of availability of a known mineral resource that would be of value to the region and residents of the state or in the loss of availability of a locally important mineral resource recovery site. No impacts would occur, and no mitigation measures would be required.	None required	No impact
Noise		
Impact NOI-1 Implementation of the proposed project would potentially result in generation of a substantial temporary increase in ambient noise levels in the vicinity of the project in excess of applicable thresholds. Therefore, implementation of Mitigation Measure MM N-1 would be required to reduce impacts to less than significant.	MM N-1 Construction Noise Reduction Measures. To reduce construction noise levels impacts to noise-sensitive receivers, temporary sound barriers/blankets shall be installed along the southern boundary of the proposed STEM Education Center site during the demolition, site preparation, grading, and paving phases to break the line-of-sight between the construction equipment and exterior use areas of nearby noise-sensitive receivers (Falkirk Apartments). The temporary barriers/blankets shall have a minimum sound transmission loss of 10 dB and noise reduction coefficient of 0.75. Additionally, the temporary barriers/blankets shall be a minimum of 16 feet in height or of sufficient height to intercept the line of sight between the noise-generating source of the construction equipment (i.e., the exhaust) and nearby residential receivers, whichever is greater. If temporary blankets are used instead of a barrier, they shall be of sufficient height to extend from the top of the temporary construction fence and drape on the ground or be sealed at the ground. The temporary blankets shall have grommets along the top edge with exterior grade hooks, and loop fasteners along the vertical edges with overlapping seams, with a minimum overlap of 2 inches.	Less than significant with mitigation incorporated

Impact	Mitigation Measure(s)	Residual Impact
	<p>In addition, University of California, Riverside/Riverside Unified School District shall require implementation of the following best management practices during project construction:</p> <ul style="list-style-type: none"> ▪ Hours of exterior construction activities on City property shall comply with the construction hours allowed in Riverside Municipal Code Section 7.35.020 of 7:00 a.m. to 7:00 p.m. on Monday through Friday and 8:00 a.m. to 5:00 p.m. on Saturday. Hours of exterior construction activities on UCR property shall comply with UCR’s standard construction hours requirements of 7:00 a.m. to 9:00 p.m. on Monday through Friday and 8:00 a.m. to 6:00 p.m. on Saturday except under rare circumstances where such time limits are infeasible. No exterior construction activities shall occur on federal holidays. ▪ Construction traffic shall follow routes so as to minimize the noise impact of this traffic on the surrounding community. ▪ Contract specifications shall require construction equipment be muffled or otherwise shielded. Contracts shall specify engine-driven equipment be fitted with appropriate noise mufflers. ▪ Construction equipment with back-up alarms shall be equipped with either audible self-adjusting backup alarms or alarms that only sound when an object is detected. Self-adjusting backup alarms shall automatically adjust to 10 dBA over the surrounding background levels. All non-self-adjusting backup alarms shall be set to the lowest setting required to be audible above the surrounding noise levels. ▪ Stationary construction equipment and vehicle staging shall be sited to direct noise away from sensitive receivers. ▪ Communication, including meetings when necessary, shall be conducted, as needed, with on-campus constituents to provide advance notice of construction activities to coordinate these activities with the academic calendar, scheduled events, and other situations, as appropriate, and to ensure the mutual needs of the proposed project and of those impacted by construction noise are met. ▪ A sign shall be provided at the construction site entrance, or other conspicuous location, that includes a 24-hour telephone number for project information, and to report complaints. If necessary, an inquiry and corrective action shall be taken, in a timely manner. 	

Impact	Mitigation Measure(s)	Residual Impact
Impact NOI-2 Implementation of the proposed project would not result in generation of excessive groundborne vibration or groundborne noise levels. Therefore, impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact NOI-3 Implementation of the proposed project would not expose people residing or working in the project area to excessive noise levels associated with private airstrips, public use airports, and public airports. Therefore, impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Population and Housing		
Impact POP-1 Implementation of the proposed project would not induce substantial unplanned population growth in an area, either directly or indirectly. Therefore, impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact POP-2 The proposed project would not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. No impact would occur, and no mitigation measures would be required.	None required	No impact
Public Services		
Impact PS-1 Implementation of the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered fire protection facilities or the need for new or physically altered fire protection facilities. Therefore, impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant
Impact PS-2 Implementation of the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered police protection facilities or the need for new or physically altered police protection facilities. Therefore, impacts would be less than significant, and no mitigation measures would be required.	None required	Less than significant

Impact	Mitigation Measure(s)	Residual Impact
<p>Impact PS-3 The proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered schools or the need for new or physically altered schools. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact PS-4 Implementation of the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered parks or the need for new or physically altered parks. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact PS-5 Implementation of the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered public facilities or the need for new or physically altered public facilities. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
Recreation		
<p>Impact REC-1 Implementation of the proposed project would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial deterioration of those facilities would occur or be accelerated. Impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
<p>Impact REC-2 Implementation of the proposed project does not include new recreational facilities or require the construction or expansion of recreational facilities which might have an adverse effect on the environment. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant
Transportation		
<p>Impact TRA-1 Implementation of the proposed project would not conflict with a program, plan, ordinance, or policy addressing the circulation system. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	None required	Less than significant

Impact	Mitigation Measure(s)	Residual Impact
<p>Impact TRA-2 Implementation of the proposed project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3(b). Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact TRA-3 Implementation of the proposed project would not substantially increase hazards due to a geometric design feature or incompatible uses. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact TRA-4 Implementation of the proposed project would potentially result in inadequate emergency access. Therefore, implementation of Mitigation Measure MM WF-1 would be required to reduce impacts to less than significant.</p>	<p>MM WF-1 Construction Management Plan. A construction management plan shall be prepared and implemented for the proposed project. This plan shall include information related to truck route details, detours, and emergency access and shall be reviewed and approved by University of California, Riverside prior to construction activity commencing. The construction management plan shall be prepared in accordance with the latest version of the California Manual on Uniform Traffic Control Devices and shall include the following measures:</p> <ul style="list-style-type: none"> ▪ Identify proposed truck routes to be used ▪ Include a public information and signage plan to inform student, faculty and staff of the planned construction activities, roadway changes, and parking changes ▪ Store construction materials only in designated areas that minimize impacts to nearby roadways ▪ Limit lane closures during peak hours to the extent possible. Inform UCR before any lane closures ▪ Use California Department of Transportation-certified flag persons for any temporary lane closures to minimize impacts to traffic flow and to ensure safe access into and out of the project site ▪ Install traffic control devices as specified in the California Department of Transportation Manual of Traffic Controls for Construction and Maintenance Work Zones ▪ To minimize disruption of emergency vehicle access, consult with affected jurisdictions (Campus Police, Campus Fire Marshal, TAPS, City of Riverside Police Department, and City of Riverside Fire Department) to identify detours for emergency vehicles, which will then be posted by the construction contractor 	<p>Less than significant with mitigation incorporated</p>

Impact	Mitigation Measure(s)	Residual Impact
	<ul style="list-style-type: none"> ▪ Coordinate with local transit agencies for temporary relocation of routes or bus stops in work zones, as necessary ▪ Coordinate with other projects under construction near the project site, so an integrated approach to construction-related traffic is developed and implemented 	
Tribal Cultural Resources		
<p>Impact TCR-1 Implementation of the proposed project would potentially cause a substantial adverse change in the significance of a tribal cultural resource. Therefore, implementation of Mitigation Measures MM TCR-1 and TCR-2 would be required to reduce impacts to less than significant.</p>	<p>MM TCR-1 Unanticipated Discovery of Tribal Cultural Resources. If previously undiscovered cultural resources of Native American origin are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, University of California, Riverside Planning, Design & Construction staff shall be notified, and a tribal representative shall be given notice and opportunity within 24 hours of discovery to determine in consultation with University of California, Riverside whether it is a tribal cultural resource, as defined by the California Environmental Quality Act. If the find is not a tribal cultural resource, work may resume. If the find is determined to be a tribal cultural resource, the tribal representative shall be given the opportunity to make recommendations to University of California, Riverside Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to the California Environmental Quality Act. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to tribal cultural resources. If University of California, Riverside determines that preservation in place is not feasible, University of California, Riverside shall design and implement a treatment plan in consultation with local Native American group(s) and, if applicable, a qualified archaeologist; prepare a report; and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.</p> <p>MM TCR-2 Tribal Cultural Resources Monitoring and Construction Worker Training. University of California, Riverside shall give notice and opportunity to a locally affiliated Tribe to provide a qualified Native American monitor to observe all ground-disturbing activities within native soils on the project site (i.e., those soils encountered at greater than four feet in depth). Notice shall be given no less than five days prior to commencement of ground-disturbing activities within areas known or expected to contain native soils. The on-site</p>	<p>Less than significant with mitigation incorporated</p>

Impact	Mitigation Measure(s)	Residual Impact
	<p>monitoring shall end when project-related ground disturbing activities within native soils are completed, or, in consultation with the lead agency and Tribe(s) as appropriate and based on observed conditions, monitoring may be reduced or eliminated prior to completion of ground-disturbing activities, when the monitor(s) has indicated that the project site has a low potential to encounter tribal cultural resources. Consolidated monitoring efforts (e.g., tribal cultural and paleontological monitoring) may occur if the individual monitor meets the applicable qualifications. The Native American monitor shall also be given notice and opportunity to provide preconstruction training for all earthmoving construction personnel prior to the start of any ground disturbing activities. The training shall include instruction on how to recognize the types of tribal cultural resources that may be encountered, and appropriate actions to be taken by the construction personnel in the event of an unanticipated discovery of a tribal cultural resource. The Native American monitor shall also be given the opportunity to provide a fact sheet conveying this information for distribution to all contractors, their employees, and other personnel involved with construction of the project. All employees shall sign a form provided by the Native American monitor documenting they attended the worker training and understand the information presented. If new construction personnel are added to the project, the crew foreman shall ensure the new personnel receive the worker training fact sheet before starting work. The University of California, Riverside Planning, Design & Construction Project Manager/contractor shall retain documentation showing when training of personnel was completed.</p>	
Utilities and Service Systems		
<p>Impact UTIL-1 Implementation of the proposed project would not require or result in the relocation or construction of new or expanded water, wastewater treatment or storm drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact UTIL-2 The proposed project would have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>

Impact	Mitigation Measure(s)	Residual Impact
<p>Impact UTIL-3 Implementation of the proposed project would not result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project’s projected demand in addition to the provider’s existing commitments. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>UTIL-4 The proposed project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Therefore, impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
Wildfire		
<p>Impact WF-1 Implementation of the proposed project would have the potential to substantially impair an adopted emergency response plan or emergency evacuation plan. Therefore, implementation of Mitigation Measures MM WF-1 would be required to reduce impacts to less than significant.</p>	<p>MM WF-1 Construction Management Plan. A construction management plan shall be prepared and implemented for the proposed project. This plan shall include information related to truck route details, detours, and emergency access and shall be reviewed and approved by University of California, Riverside prior to construction activity commencing. The construction management plan shall be prepared in accordance with the latest version of the California Manual on Uniform Traffic Control Devices and shall include the following measures:</p> <ul style="list-style-type: none"> ▪ Identify proposed truck routes to be used ▪ Include a public information and signage plan to inform student, faculty and staff of the planned construction activities, roadway changes, and parking changes ▪ Store construction materials only in designated areas that minimize impacts to nearby roadways ▪ Limit lane closures during peak hours to the extent possible. Inform University of California, Riverside before any lane closures ▪ Use California Department of Transportation-certified flag persons for any temporary lane closures to minimize impacts to traffic flow and to ensure safe access into and out of the project site ▪ Install traffic control devices as specified in the California Department of Transportation Manual of Traffic Controls for Construction and Maintenance Work Zones ▪ To minimize disruption of emergency vehicle access, consult with affected jurisdictions (Campus Police, Campus Fire Marshal, Transportation and 	<p>Less than significant with mitigation incorporated</p>

Impact	Mitigation Measure(s)	Residual Impact
	<p>Parking Services, City of Riverside Police Department, and City of Riverside Fire Department) to identify detours for emergency vehicles, which will then be posted by the construction contractor</p> <ul style="list-style-type: none"> ▪ Coordinate with local transit agencies for temporary relocation of routes or bus stops in work zones, as necessary ▪ Coordinate with other projects under construction near the project site, so an integrated approach to construction-related traffic is developed and implemented 	
<p>Impact WF-2 Implementation of the proposed project would not exacerbate wildfire risks exposing project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire due to slope, prevailing winds, and other factors. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact WF-3 Implementation of the proposed project would not require the installation or maintenance of associated infrastructure that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>
<p>Impact WF-4 Implementation of the proposed project would not expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. Impacts would be less than significant, and no mitigation measures would be required.</p>	<p>None required</p>	<p>Less than significant</p>

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1 Introduction

This Environmental Impact Report (EIR) has been prepared to evaluate the physical environmental effects of the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (herein referred to as STEM Education Center or proposed project), located in Riverside, California. This EIR has been prepared under the direction of University of California (UC) Board of Regents (Regents) pursuant to the requirements of the California Environmental Quality Act (CEQA) (Public Resources Code [PRC] Sections 21000 et seq.) and the CEQA Guidelines (Title 14, California Code of Regulations, Sections 15000 et seq.).

1.1 Project Overview

The following is a synopsis of the project characteristics. For additional information on the proposed project, see Section 2, *Project Description*.

The proposed RUSD STEM Education Center project would be located on an approximately seven-acre site on the southwest corner of Blaine Street and Canyon Crest Drive in Riverside, California, owned by the UC Regents. The proposed project would entail development of an approximately 80,000 gross square foot (gsf) school facility for students in grades 9 through 12. The facility would contain classrooms, lecture facilities, a multi-use discovery center, a fabrication lab, food services, a fitness center, administrative offices, outdoor learning areas, landscape, hardscape, and associated site improvements. The proposed project is expected to serve a capacity of approximately 800 students at any given time, approximately 1,200 total students daily (800 part-time and 400 full-time), and approximately 60 faculty and staff. A portion of the student population at the proposed STEM Education Center would be comprised of students in 9th through 12th grades currently attending the existing STEM facility at the former Hyatt Elementary School site located at 4466 Mt. Vernon Avenue in Riverside. These students would be relocated to the proposed STEM Education Center upon completion of the proposed project while the existing Hyatt Elementary School would continue to serve grades 5 through 8. The proposed RUSD STEM Education Center would typically serve students between 7:45 a.m. and 3:30 p.m. on weekdays and may occasionally be used as late as 10:00 p.m. for school-specific uses and activities approximately one to two times per month, as well as for two to three special weekend events per year.

The project site, which would be leased by the UC Regents to RUSD, currently contains two cellular network towers located on the northwest corner of the site. The Sprint Cell Tower is planned to be decommissioned independently of the proposed project, and no replacement is proposed. The T-Mobile Cell Tower would be decommissioned, removed from the site, and relocated to the northern portion of the adjacent UCR Baseball Complex. The relocation of the T-Mobile Cell Tower is evaluated in this EIR. The existing open recreational fields (two baseball diamonds) on the site would be removed with the construction of the proposed project and are not planned to be replaced, although additional recreational fields are included in the currently under-construction North District Development Phase 2 Project.

For the purposes of this EIR, the project site encompasses five non-contiguous areas in close proximity to each other – the proposed location of the RUSD STEM Education Center, the T-Mobile Cell Tower Relocation Area, the electrical feeder line upgrade alignment, the sewer line extension alignment, and the associated improvements area (see Figure 2-3, in Section 2, *Project Description*).

1.2 Purpose and Legal Authority

The proposed project requires the approval of the UC Regents for the issuance of a ground lease (proposed project is on UC Regents-owned land), approval from the RUSD Board of Education, and issuance of permits and approvals from other agencies, including the California Department of Education (CDE), California Department of Toxic Substances (DTSC), California State Water Resources Control Board, California Geological Survey of the California Department of Conservation, and the Division of the State Architect (DSA). Therefore, it is subject to the environmental review requirements of CEQA. According to CEQA Guidelines Section 15064(f)(1), preparation of an EIR is required whenever it can be fairly argued, based on substantial evidence, that a proposed project may result in a significant environmental impact. An EIR is an informational document used to inform public-agency decision makers as well as the public of significant environmental impacts of a project, identify possible ways to minimize the impacts, and describe reasonable alternatives to the project that could feasibly attain most of the basic objectives of the project while substantially lessening or avoiding any of the significant environmental impacts. Public agencies are required to consider the information presented in the EIR when determining whether to approve a project. This Draft EIR has been prepared as a Project EIR pursuant to CEQA Guidelines Section 15161. As described in CEQA Guidelines Section 15161, a Project EIR is appropriate for a specific development project and should focus primarily on the changes in the environment that would result from the proposed development project. In doing so, the EIR shall examine all phases of the proposed project, including planning, construction, and operation.

1.3 Scope and Content

According to CEQA Guidelines Section 15061(a), “once a lead agency has determined that an activity is a project subject to CEQA, a lead agency shall determine whether the project is exempt from CEQA.” Upon preliminary review, UCR determined the proposed project does not qualify for an exemption from CEQA under either a statutory exemption (CEQA Guidelines Article 18) or a categorical exemption (CEQA Guidelines Article 19). Pursuant to CEQA Guidelines 15063(a), if preliminary review determines a project is not exempt from CEQA, the lead agency shall conduct an Initial Study to determine if the project may have a significant impact on the environment unless the lead agency can determine that an EIR will clearly be required for the proposed project. In accordance with CEQA Guidelines Section 15063(a), UCR determined an EIR would clearly be required for the proposed project because there is substantial evidence that aspects of the project, either individually or cumulatively, may cause of a significant effect on the environment. Therefore, no Initial Study was prepared prior to this EIR.

This EIR identifies potentially significant environmental impacts of the project and cumulative development in accordance with provisions set forth in the CEQA Guidelines and addresses the following 20 environmental issue areas as well as other CEQA mandated issues (i.e., cumulative impacts, growth-inducing impacts, and alternatives).

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services

- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Recreation
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems
- Wildfire

The Alternatives section of the EIR (Section 6) was prepared pursuant to Section 15126.6 of the CEQA Guidelines and focuses on alternatives that are capable of eliminating or reducing significant adverse effects associated with the proposed project, while feasibly attaining most of the basic project objectives. In addition, the alternatives section identifies the "environmentally superior" alternative among the alternatives assessed. The alternatives evaluated include the CEQA-required "No Project" alternative as well as two alternative development scenarios for the proposed project.

The level of detail contained throughout this EIR is consistent with the requirements of CEQA and applicable court decisions. Section 15151 of the CEQA Guidelines provides the standard of adequacy upon which this document is based:

An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of the proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection but for adequacy, completeness, and a good faith effort at full disclosure.

Similarly, Section 15204(a) explains:

[T]he adequacy of an EIR is determined in terms of what is reasonably feasible, in light of factors such as the magnitude of the project at issue, the severity of its likely environmental impacts, and the geographic scope of the project. CEQA does not require a lead agency to conduct every test or perform all research, study, and experimentation recommended or demanded by commenters.

The EIR references and incorporates pertinent UC and UCR policies and guidelines, certified EIRs and adopted CEQA documents, and other background documents. A full reference list is contained in Section 7, *References*, and at the end of the individual resource sections.

1.4 Lead and Responsible Agencies

CEQA Guidelines Sections 15367 and 15381 define lead and responsible agencies, respectively. A lead agency is the public agency that has principal responsibility for carrying out or approving a project, and a responsible agency refers to a public agency other than the lead agency that has discretionary approval over the project. UCR is the lead agency for the proposed project because, as the landowner, it has principal responsibility for evaluating whether or not to allow the proposed project to move forward through consideration of a potential ground lease with RUSD. Responsible agencies for the proposed project include the RUSD Board of Education, California Department of Education, California Department of Toxic Substances Control, California State Water Resources Control Board, California Geological Survey of Department of Conservation, and the California

Division of the State Architect. Refer to Section 2.4, *Required Approvals*, of the EIR for further information pertaining to required approvals.

1.5 Environmental Review Process

The environmental review process, as required under CEQA, is summarized below. The steps are presented in sequential order.

1. **Notice of Preparation (NOP).** Pursuant to Section 15082 of the CEQA Guidelines, UCR (as lead agency) issued an NOP for public review and comment from February 16, 2022 to March 18, 2022 (see Appendix A of this EIR). As provided by CEQA Guidelines Section 15375, an NOP is a brief document sent by the lead agency to notify the responsible agencies, trustee agencies, the Governor’s Office of Planning and Research (OPR), and other involved agencies that the lead agency plans to prepare an EIR for a project. The purpose of the notice is to solicit guidance from those agencies as to the scope and content of the environmental information to be included in the EIR and to solicit recommendations and develop information regarding the scope, focus, and content of the EIR. During this period, UCR staff held a Scoping Meeting on March 9, 2022 in the Auditorium of Grant Administrative Site at Grant Elementary School in order to provide the public an opportunity to receive more information on the proposed project and to solicit comments and suggestions on the scope of the EIR. A total of 24 speaker cards were submitted at the Scoping Meeting with 20 speakers present and four speakers not physically present; and UCR received 60 letters in response to the NOP. The letters and a transcript of verbal comments are included in Appendix A.
2. **Notice of Availability (NOA) and Notice of Completion (NOC).** Sections 15085(a) and 15087(a) of the CEQA Guidelines require that when the Draft EIR is completed, the lead agency must file an NOC with the California Office of Planning and Research and provide an NOA to the public. UCR, serving as the lead agency, provided the NOC to OPR and circulated an NOA of the Draft EIR to campus organizations, in addition to public agencies, special districts, tribal representatives, organizations, and individuals that commented on the NOP and/or requested to be kept informed of the proposed project. In addition, UCR placed a public notice in the Press Enterprise, the recognized local paper of general circulation in the project vicinity.
3. **Release of the Draft EIR.** Concurrent with the publication of the NOA/NOC, UCR has released the Draft EIR for the proposed project for a 45-day review period. Additional information and details regarding the review process are included in the NOA. This EIR, appendices, and related materials can be found at the UCR Planning, Design & Construction website (<https://pdc.ucr.edu/environmental-planning-ceqa>). Written comments should be submitted by mail or email, with appropriate contact information, to the following:

Stephanie Tang
Assistant Director of Campus Planning
Planning, Design & Construction
University of California, Riverside
1223 University Avenue, Suite 240
Riverside, California 92507
ceqa@ucr.edu

Any agency, organization, or members of the public desiring to comment on the EIR must submit their comments prior to the end of the public comment period identified in the NOA.

4. **Final EIR.** A Final EIR will be completed and will consist of the Draft EIR; revisions to the Draft EIR; a list of persons, organizations, and public agencies commenting on the Draft EIR, comments received during the comment period, responses to comments addressing significant environmental concerns, and any other information added by the lead agency. After the Final EIR is completed, and at least 10 days prior to its certification, a copy of the response to written comments received on the Draft EIR will be provided or made available to all commenting parties.
5. **Certification of Final EIR.** Prior to making a decision on the proposed project, the lead agency must certify that: (1) the Final EIR has been completed in compliance with CEQA, (2) the Final EIR was presented to the decision-making body of the lead agency and that the decision-making body reviewed and considered the information in the Final EIR prior to making a decision on the proposed project, and (3) the Final EIR reflects the lead agency's independent judgment and analysis (CEQA Guidelines Section 15090).
6. **Project Approval.** The University, acting as lead agency, will need to decide whether to approve or deny the ground lease and enable development of the proposed project. RUSD, acting as responsible agency and the party undertaking the project, will need to decide whether to approve and fund construction of the proposed project, an alternative, or a variation thereof, and decide whether to adopt the mitigation measures as proposed, or to implement conditions of approval. If the proposed project would result in significant environmental effects, CEQA findings and a Statement of Overriding Considerations may be required pursuant to CEQA Guidelines Sections 15042 and 15043.
7. **Mitigation Monitoring and Reporting Program (MMRP).** According to PRC Section 21081.6, for projects in which significant impacts would be minimized by adopted mitigation measures, the lead agency must prepare an MMRP. The purpose of an MMRP is to ensure compliance with required mitigation measures during implementation of the project.
8. **Findings/Statement of Overriding Considerations.** For each significant impact of the proposed project identified in the Final EIR, the lead agency must find, based on substantial evidence, that either: (1) the proposed project has been changed to avoid or substantially reduce the magnitude of the impact, (2) changes are within another agency's jurisdiction and such changes have or should be adopted, or (3) specific economic, social, or other considerations make the mitigation measures or project alternatives infeasible (CEQA Guidelines Section 15091). If an agency approves a project with unavoidable significant environmental effects, it must prepare a written Statement of Overriding Considerations that balances, as applicable, the economic, legal, social, technological, or other benefits, including regionwide or statewide environmental benefits of a proposed project, against its unavoidable environmental risks.
9. **Notice of Determination (NOD).** The lead agency must file an NOD after deciding to approve a project for which an EIR is prepared (CEQA Guidelines Section 15094). The NOD must be posted for 30 days and sent to anyone previously requesting notice. Posting of the NOD within five working days of project approval starts a 30-day statute of limitations on CEQA legal challenges (PRC Section 21167[c]).

Table 1-1 NOP Commenters

Name of Commenter	Name of Commenter	Name of Commenter
State Agencies (Alphabetical)		
California Department of Toxic Substances Control (DTSC)	Native American Heritage Commission (NAHC)	
Local Agencies (Alphabetical)		
City of Riverside	Foundation RSA (Riverside STEM Academy) (two letters)	Inland Empire Biking Alliance
Rincon Band of Luiseño Indians	Riverside County Clerk	South Coast Air Quality Management District (SCAQMD)
Individual Comments – Written (Alphabetical by First Name)		
Anthony Noriega	Barbara Robinson	Brad Alewine
Brian Jaramillo	Bud and Claudia Luppino	Candace and Tom Spiel
Carl E. Rowe	Carla Lidner and Bradley Baum	Charles Morehead
Cheryl-Marie Hansberger	Chris Lynch	Cindy Foster
Collette and Gary Lee	David Bristow	Diane Kwasman
Donald M. Blackman	Gilberto Esquivel	Gordon Bourns
Harkeerat Dhillon	Heather Champagne	Holly Redfern
Irving Hendrick	James L. Antoyan	Jeannene Johnson Kelly
Jesse Valenzuela	Jessika Shields	John and Trish Field
Kelli Tyson Stockton	Kevin Dawson	Kevin Kelly
Laura Merickel	Lawrence T. Geraty (La Sierra University)	Linda Scott Hendrick
Maria Anguiano	Mary Jean Comadena	Matthew Webb
Melody Clark	Mike Downs	Mike Marlatt
Nick Goldware	Patricia Alfaro	Paul Foster
Rich Davis (two letters)	Roger Turner	Stan Morrison
Stephen E. Smith	Virginia Blumenthal	William H. Grover
William R. Bailey Jr.	Yolanda Esquivel	
Individual Commenters - Verbal at Scoping Meeting (in Order of Speaking)		
Bahram Mobashar	Sue Johnson	Sala Ponnech for Yolanda Esquivel
Diane Kwasman	Nicole Fournier	Anthony Noriega
Stan Morrison	Melody Clark	Joshua Zonker
Maribel Nunez	Sammie Luna	Roger Turner
Richard Davis for Wendy Crockett	Richard Davis for Sarah Scott ¹	Richard Davis for Molly Williams
Richard Davis	Richard Davis for Jill Johnson Young	Sarah Simpson
Gilberto Esquivel	Amit Roy-Chowdhury	Kevin Dawson
Gordon Bourns	Clarissa Cervantes	Kathleen Barth

¹ Commenter did not speak for this speaker card because he ran out of the allotted time to speak.

1.6 Draft EIR Content

This Draft EIR is organized in two volumes (Volumes I and II). Volume I presents the potential project-level environmental impacts of the proposed project, and Volume II provides technical appendices for the proposed project. The contents of Volume I include the following:

- **Executive Summary** – presents a brief synopsis of the proposed project, including project objectives, and an overview of project alternatives. This section also provides areas of controversy/issues to be resolved, a table summarizing project environmental impacts, mitigation measures, and the level of significance of impacts after mitigation.
- **Section 1, Introduction** – provides an overview of the proposed project, the EIR process, the intended uses of the EIR, and an overview of the format and contents of the EIR.
- **Section 2, Project Description** – provides a description of the proposed project, including its location, background information, objectives, and physical characteristics.
- **Section 3, Environmental Setting** – provides a general overview of the environmental setting for the proposed project, including the regional and campus setting.
- **Section 4, Environmental Impact Analysis** – presents the general format of the environmental analysis and an analysis of environmental impacts for each resource area. Each subsection contains a description of the existing/baseline conditions and the regulatory framework. The impacts analysis identifies the significance criteria and methodology used to determine whether impacts would be significant or less than significant/no impact, discusses the impacts, describes potential mitigation measures to reduce significant environmental impacts and describes cumulative impacts. References are provided at the end of each subsection.
- **Section 5, Other CEQA Considerations** – summarizes impacts that would result from the proposed project, including significant environmental effects, irreversible changes to the environment, and growth-inducing impacts.
- **Section 6, Alternatives** – describes potentially feasible alternatives to the proposed project that may attain most of the basic project objectives while avoiding or substantially lessening any of its significant effects. The analysis evaluates the environmental effects resulting from each alternative, compares these effects to those resulting from the proposed project, and describes the relationship of each alternative to the project objectives.
- **Section 7, References** – lists the documents and materials referenced in the text of the document.

1.7 List of Abbreviations

°F	degrees Fahrenheit
µg/L	micrograms per liter
µg/m ³	micrograms per cubic meter
AASHTO	American Association of State Highway and Transportation Officials
AB	Assembly Bill
ADA	American with Disabilities Act
ADT	average daily traffic
AFY	acre-feet per year
ALUC	Airport Land Use Commission
APN	Assessor's Parcel Number
ASC	American Society of Civil Engineers
BCE	Before Common Era
BMP	Best Management Practices
BTU	British thermal units
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standard
CAL FIRE	California Department of Forestry and Fire Protection
Cal/OSHA	California Division of Occupational Safety and Health
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CalNAGPRA	California Native American Graves Protection and Repatriation Act
CalOES	California Governor's Office of Emergency Services
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CBC	California Building Code
CBE	California Board of Education
CBP	Continuing Best Practice
CCR	California Code of Regulations
CDE	California Department of Education
CEC	California Energy Commission
CEQA	California Environmental Quality Act

CESA	California Endangered Species Act
CFC	chlorofluorocarbon
CFGC	California Fish and Game Code
CFR	Code of Federal Regulations
CGP	Construction General Permit
CGS	California Geological Survey
CH ₄	methane
CHRIS	California Historical Research Information System
City	City of Riverside
Cl ₂	Chlorine
CNDDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNPS	California Native Plant Society
CO ₂	carbon dioxide
CO _{2e}	carbon dioxide equivalent
County	Riverside County
CPUC	California Public Utilities Commission
CRHR	California Register of Historic Resources
CRPR	California Rare Plant Rank
CWA	Clean Water Act
DAMP	Drainage Area Management Plan
dB	decibel
dba	A-weighted decibel
DOC	California Department of Conservation
DOF	California Department of Finance
DSA	Division of the State Architect
DTSC	Department of Toxic Substances Control
DWR	California Department of Water Resources
EAP	Emergency Action Plan
EH&S	Environmental Health & Safety
EIC	Eastern information Center
EIR	Environmental Impact Report
EO	Executive Order

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EOP	Emergency Operations Plan
ESA	Endangered Species Act
EV	electric vehicles
FAA	Federal Aviation Administration
FCC	Federal Communications Commission
FE	Federally Endangered
Fed/OSHA	Federal Occupational Health and Safety Administration
FEMA	Federal Emergency Management Agency
FHSZ	Fire Hazard Severity Zones
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Maps
FMMP	Farmland Mapping and Monitoring Program
FRA	Federal Responsibility Areas
FT	federally threatened
FTA	Federal Transit Administration
GHG	greenhouse gas
gsf	gross square foot
GWh	gigawatt-hours
HABS	Historic American Building Survey
HAZWOPER	Hazardous Waste Operations and Emergency Response
HCF	hydrofluorocarbons
HCFC	hydrochlorofluorocarbon
HCP	Habit Conservation Plan
hp	horsepower
HVAC	heating, ventilation, and air conditioning
I-215	Interstate 215
in/sec	inches per second
IPCC	Intergovernmental Panel on Climate Change
kW	kilowatts
kWh	kilowatt hour
LAWA	Los Angeles World Airports
LBP	lead-based paint
LED	light-emitting diode

LEED	Leadership in Energy and Environmental Design
L _{eq}	equivalent noise level
LHMP	Local Hazard Mitigation Plan
LID	Low Impact Development
L _{max}	instantaneous maximum noise level
L _{min}	instantaneous minimum noise level
LOS	level of service
LRA	Local Responsibility Area
LRAA	Locational Running Annual Average
LRDP	Long Range Development Plan
LRFMP	Long Range Facilities Master Plan
LSAA	Lake/Streambed Alteration Agreement
M	magnitude
MBTA	Migratory Bird Treaty Act
MCLG	Maximum Contaminant Level Goal
MGD	million gallons per day
MMbtu	million British Thermal Units
MMRP	Mitigation and Monitoring Reporting Program
MOT	Maintenance, Operations, and Transportation
MOU	memorandum of understanding
MRF	Materials Recovery Facility
MRZ	Mineral Resource Zone
MS4	Municipal Separate Storm Sewer Systems
MSHCP	Western Riverside County Multiple Species Habitat Conservation Plan
MT	metric ton
MW	megawatt
MWh	megawatt-hour
N/A	Not Available
N ₂ O	nitrous oxides
NAAQS	National Ambient Air Quality Standard
NAHC	Native American Heritage Commission
ND	not determined
NFIRS	National Fire Incident Reporting System

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NHTSA	National Highway Traffic and Safety Administration
NO ₂	nitrogen dioxide
NOA	Notice of Availability
NOC	Notice of Completion
NOD	Notice of Determination
NOP	Notice of Preparation
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NS	no standard
NTU	nephelometric turbidity unit
OD	Origin/Destination
ODS	ozone-depleting substances
OITC	outdoor-indoor transmission class
OPR	Office of Planning and Research
OSFM	California Office of the State Fire Marshal
OSHA	Occupational Health and Safety Act
PA	public address
PCF	perfluorocarbons
pCi/L	picocuries per liter
PM ₁₀	particulate matter measuring 10 microns or less in diameter
PM _{2.5}	particulate matter measuring 2.5 microns or less in diameter
ppm	parts per million
PPV	peak particle velocity
PRC	California Public Resources Code
QSP	Qualified Stormwater Pollution Prevention Plan Practitioner
RCA	Regional Conservation Authority
RCFCWCD	Riverside County Flood Control and Conservation District
RCFD	Riverside County Fire Department
RCNM	Roadway Construction Noise Model
RCRA	Resource Conservation and Recovery Act
RFD	City of Riverside Fire Department
RHNA	Regional Housing Needs Assessment

RMS	root mean squared
RPD	City of Riverside Police Department
RPOSD	Regional Park and Open Space District
RPU	Riverside Public Utilities
RRG-CAP	Riverside Restorative Growthprint – Climate Action Plan
RSA	Riverside STEM Academy
RTA	Riverside Transit Agency
RTP	Regional Transportation Plan
RUSD	Riverside Unified School District
RWQCB	Regional Water Quality Control Board
RWQCP	Riverside Water Quality Control Plant
SAF Plan	State Alternative Fuels Plan
SAFE Rule	Safer Affordable Fuel-Efficient Vehicles Rule
SARA	Superfund Amendments and Reauthorization Act
SARWQCB	Santa Ana Regional Water Quality Control Board
SB	Senate Bill
SBBA	San Bernardino Basin Area
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCG	Southern California Gas Company
SCS	sustainable communities strategy
SDC	seismic design category
SDWA	Safe Drinking Water Act
SE	state endangered
SEMS	Standardized Emergency Management System
SF ₆	sulfur hexafluoride
SGMA	Sustainable Groundwater Management Act
SHMP	State of California Multi-Hazard Mitigation Plan
SLF	Sacred Lands File
SMARA	California Surface Mining and Reclamation Act of 1975
SMARTS	Stormwater Multiple Application and Report Tracking System

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SOV	single-occupant vehicle
SPCC	Spill Prevention, Control, and Countermeasures Plan
SR	State Route
SRA	State Responsibility Areas
SSC	Species of Special Concern
SSMP	Sewer System Management Plan
ST	short-term
STC	Sound Transmission Class
STEM	Science, Technology, Engineering, and Mathematics
SVP	Society of Vertebrate Paleontology
SWP	State Water Project
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
SZ	Scientific Resource Zone
TAPS	Transportation and Parking Services
TAZ	Traffic Analysis Zone
TCR	tribal cultural resource
TIA	Transportation Impact Analysis
TMDL	Total Maximum Daily Load
TNM	Traffic Noise Model
TOD	Transit Oriented Development
TPA	Transit Priority Areas
U.S.	United States
UC	University of California
UCOP	University of California, Office of the President
UCPD	University of California Police Department
UCR	University of California, Riverside
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USDOT	United States Department of Transportation
USEIA	United States Energy Information Administration
USEPA	United States Environmental Protection Agency
USFA	United State Fire Administration

USFWS	United States Fish and Wildlife Service
USGBC	United States Green Building Council
UST	underground storage tank
UWMP	Urban Water Management Plan
VHFHSZ	Very High Fire Hazard Severity Zone
VMT	vehicle miles traveled
VOC	volatile organic compound
WEAP	Worker Environmental Awareness Program
WMWD	Western Municipal Water District
WQMP	Water Quality Management Plan
WRCOG	Western Riverside Council of Governments
ZEV	zero-emission vehicle

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2 Project Description

This section describes the project site setting, project needs and objectives, major project characteristics, and discretionary actions needed for approval.

2.1 Project Setting

2.1.1 Regional Location

The City of Riverside (City) is in Riverside County and lies in a larger geographic area commonly known as Inland Southern California, as shown in Figure 2-1. Inland Southern California includes western Riverside and southwestern San Bernardino counties as well as portions of the Pomona Valley in easternmost Los Angeles County. Jurupa Valley and the unincorporated community of Highgrove border the City to the north; Moreno Valley and Box Springs Mountain Reserve border the City to the east; the unincorporated community of Woodcrest borders the City to the south; and Norco and the unincorporated community of Home Gardens border the City to the west.

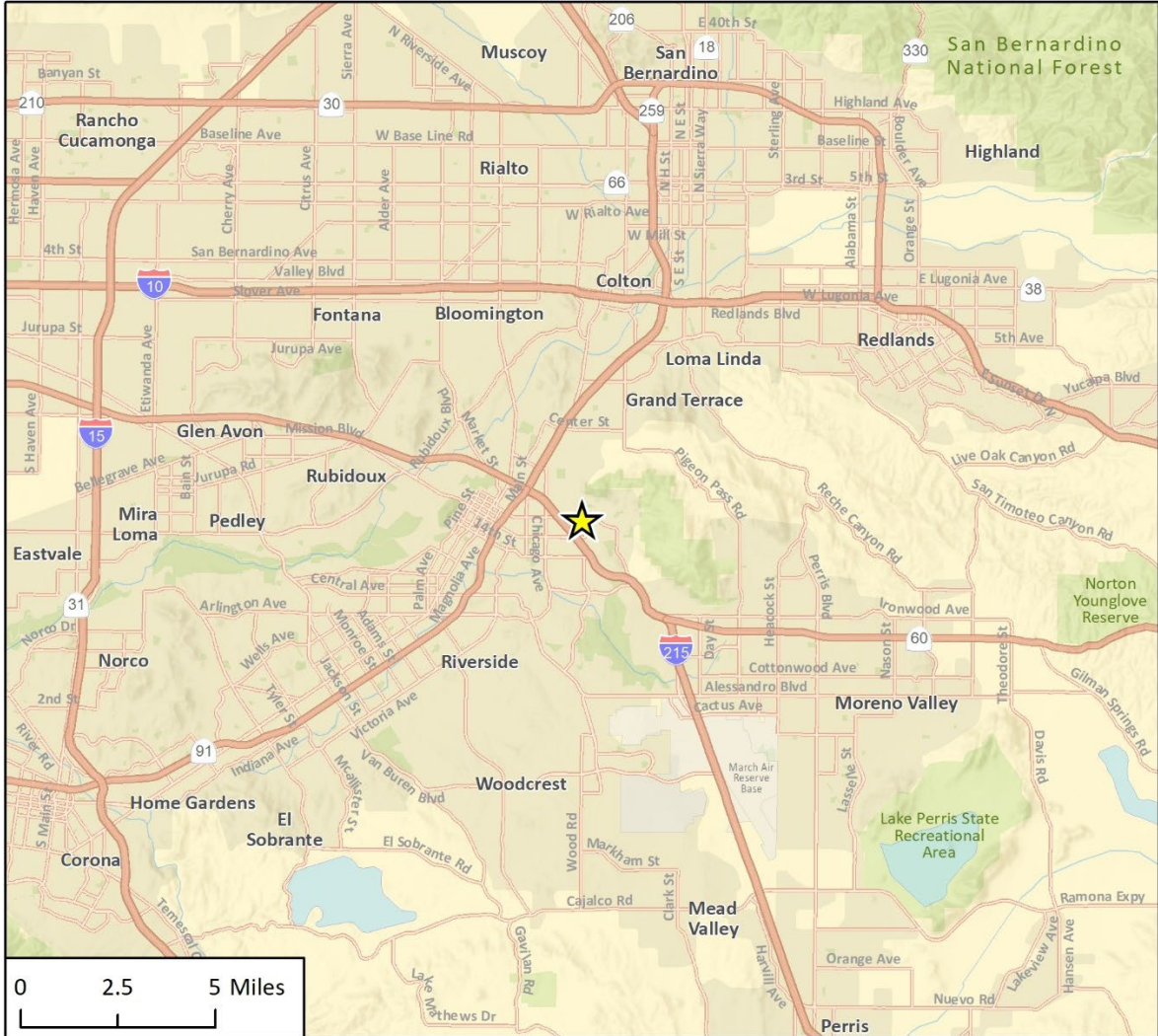
Regional access to the City is provided via the Interstate 215 (I-215)/State Route 60 (SR 60) freeway, which traverses northwest-southeast through the City, and State Route 91 (SR 91), which traverses northeast-southwest through the City. Local access to the City is provided by various arterial roadways that intersect the City, including Mission Inn Avenue, Magnolia Avenue/Market Street, Central Avenue, and Main Street, among others.

2.1.2 Campus Location and Setting

The University of California, Riverside (UCR) main campus (campus) is located at 900 University Avenue within the City, approximately three miles east of downtown Riverside, approximately two miles northwest of the City of Moreno Valley, and just west of the Box Springs Mountains. The UCR campus is generally bounded by University Avenue and Blaine Street to the north, Watkins Drive to the east, Le Conte Drive to the south, and Chicago Avenue to the west. The campus is bisected diagonally by the I-215/SR 60 freeway, resulting in two areas referred to as East Campus and West Campus. The campus consists of approximately 1,108 acres¹ with approximately 604 acres east of the I-215/SR 60 freeway (East Campus) and approximately 504 acres west of the I-215/SR 60 freeway (West Campus). The East Campus contains most of the University's built space, including but not limited to academic, research and support facilities, student housing, recreation, and the UCR Botanic Gardens. The West Campus is largely used for agricultural research fields and teaching managed by the Agricultural Operations unit of the College of Natural and Agricultural Sciences. Several other University facilities are also located on West Campus: Parking Lot 30, Parking Lot 50, Parking Lot 51, a solar farm, University Extension, and International Village – a housing complex intended for visiting international students. The University Substation, jointly owned by the City and UCR, is at the northern edge of Parking Lot 30, and a California Department of Transportation (Caltrans) service yard is situated on an approximately 4.4-acre triangular parcel directly west of the I-215/SR 60 freeway, at the eastern terminus of Everton Place. The Gage Canal irrigation facility traverses the area north to south, with portions running underground (see Figure 2-2).

¹ The UCR Palm Desert Center, UCR Natural Reserves, all other Regents-owned properties, and all off-campus leased spaces are excluded.

Figure 2-1 Regional Location



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 Project Location 

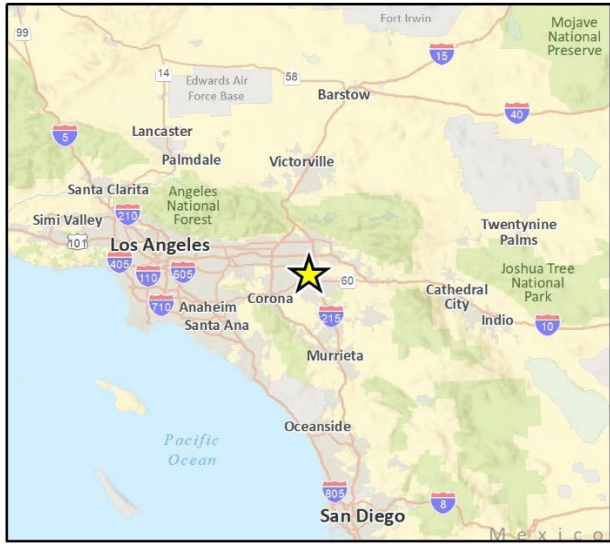


Fig. 1 Regional Location

2.1.3 Project Location and Surrounding Uses

For the purposes of this EIR, the project site encompasses five non-contiguous areas in close proximity to each other – the proposed location of the Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (referred to as STEM Education Center, or proposed project), the T-Mobile Cell Tower Relocation Area, the electrical feeder line upgrade alignment, the sewer line extension alignment, and the associated improvements area. (In certain locations throughout the EIR, the electrical feeder line upgrade alignment and the sewer line extension alignment are referred to collectively as the utilities improvement alignment due to similar site conditions.) Figure 2-3 shows the project site location within its neighborhood context. The project site consists of four parcels, summarized in Table 2-1 as well as the public right-of-way.

As shown on Figure 2-3, the STEM Education Center would be located on an approximately seven acre-site owned by the UC Regents. The site is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive on UCR's East Campus (956 Blaine Street, Riverside, California 92507), adjacent to the UCR Baseball Complex. As noted in Table 2-1, the location of the proposed STEM Education Center is currently used as an open recreational field with two baseball diamonds, surface parking, and two cellular network towers, currently leased to Sprint/Crown Castle and T-Mobile (see Figure 2-3). The location is comprised of two parcels – Assessor's Parcel Numbers (APN) 250-220-003 and 250-220-008. Existing surrounding uses to the location of the proposed STEM Education Center include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Existing uses on Canyon Crest Drive include the mostly undeveloped North District Development area located to the east;² Falkirk Apartments for student housing and a portion of the underground Gage Canal to the south; REACH Leadership STEAM Academy, a church, and a portion of the underground Gage Canal to the southwest; and the UCR Baseball Complex and a portion of the underground Gage Canal to the west.

As shown in Figure 2-3, the T-Mobile Cell Tower Relocation Area is an approximately 2,400-square-foot area located at the UCR Baseball Complex on APN 250-220-006. The area consists of a landscaped area behind the outfield and contains maintained grass and trees. The T-Mobile Cell Tower Relocation Area is bordered by Blaine Street to the north and the UCR Baseball Complex to the west, south, and east. The T-Mobile Cell Tower Relocation Area is approximately 130 feet to the west of the location of the proposed STEM Education Center. Additional nearby land uses include the underground Gage Canal to the east, the Park Hill Apartments to the north across Blaine Street, and Parking Lot 26 to the west. Given the proximity of this area to the location of the proposed STEM Education Center, other surrounding land uses are similar to those described above.

As shown in Figure 2-3, the proposed electrical feeder line upgrade alignment is an approximately 1,900-linear-foot alignment located within the public rights-of-way of Canyon Crest Drive and Blaine Street near the location of the proposed STEM Education Center. The alignment traverses the Gage Canal, which crosses under Blaine Street. The electrical feeder line upgrade alignment is surrounded by similar land uses as the location of the proposed STEM Education Center, as described above,

² The UCR North District Development (NDD) Phase 1 located at the southeastern portion of the NDD area, which includes approximately 1,500 student beds, was completed in summer 2021. The NDD Phase 2 located at the western and a portion of the central NDD area includes approximately 1,600 student beds, ancillary amenity spaces, a Central Park, surface parking, recreational fields, and associated landscape and hardscape improvements; and is currently under construction. Construction of the future phases of the North District area (e.g., residence hall beds, apartment beds, dining facilities, recreation) will be determined at a later date pending demand and funding.

including the mostly undeveloped North District Development area to the east; the Stonehaven Apartments for student housing and a mix of church, apartments, and commercial uses to the north/northeast/northwest; and the location of the proposed STEM Education Center to the west and south.

As shown in Figure 2-3, the sewer line extension alignment is an approximately 175-foot-long alignment located within the public right of way of Canyon Crest Drive near the southeastern location of the proposed STEM Education Center. The sewer line extension alignment is surrounded by similar land uses as the location of the proposed STEM Education Center and electrical feeder line upgrade alignment, as described above, including the mostly undeveloped North District Development area to the east; Falkirk Apartments for student housing to the west and southwest; and the location of the proposed STEM Education Center to the west and northwest.

As shown in Figure 2-3, the associated improvements area is approximately 0.7 acre in size and is located on top of the underground Gage Canal, between the UCR Baseball Complex and proposed location of the STEM Education Center. The associated improvements area, located on APN 250-220-002, currently contains part of an open recreational field with a portion of a baseball diamond, bleachers, lighting, and surface parking. Existing surrounding uses to the associated improvements area are similar to those of the location of the proposed STEM Education Center, listed previously.

Table 2-1 Characteristics of Project Site Parcels

	Assessor's Parcel Number 250-220-003 (Location of Proposed STEM Education Center)	Assessor's Parcel Number 250-220-008 (Location of Proposed STEM Education Center)	Assessor's Parcel Number 250-220-006 (T-Mobile Cell Tower Relocation Area)	Assessor's Parcel Number 250-220-002 (Associated Improvements Area)
UCR 2021 Long Range Development Plan Land Use Designation	Not Applicable	Canyon Crest Gateway	Recreation & Athletics	Canyon Crest Gateway
Ownership	City of Riverside	UCR	UCR	UCR
Existing Use(s)	Sprint Cell Tower	Open recreational field with two baseball diamonds, T-Mobile Cell Tower, and surface parking	Baseball field, landscaping	Open recreational field
City of Riverside General Plan Land Use Designation	PF	PF	PF	PF
City of Riverside Zoning Designation ¹	Multi-Family Residential (R-3-1500)	PF	PF	PF
Approximate Acreage ²	0.26	5.65	2,400 square feet ³	0.7

APNs = Assessor's Parcel Numbers; UCR = University of California, Riverside; PF = Public Facilities/Institutions

Note: The electrical feeder line upgrade alignment is approximately 1,900 linear feet within public rights-of-way of Canyon Crest Drive and Blaine Street. The sewer line extension alignment is approximately 175 feet within public rights-of-way of Canyon Crest Drive.

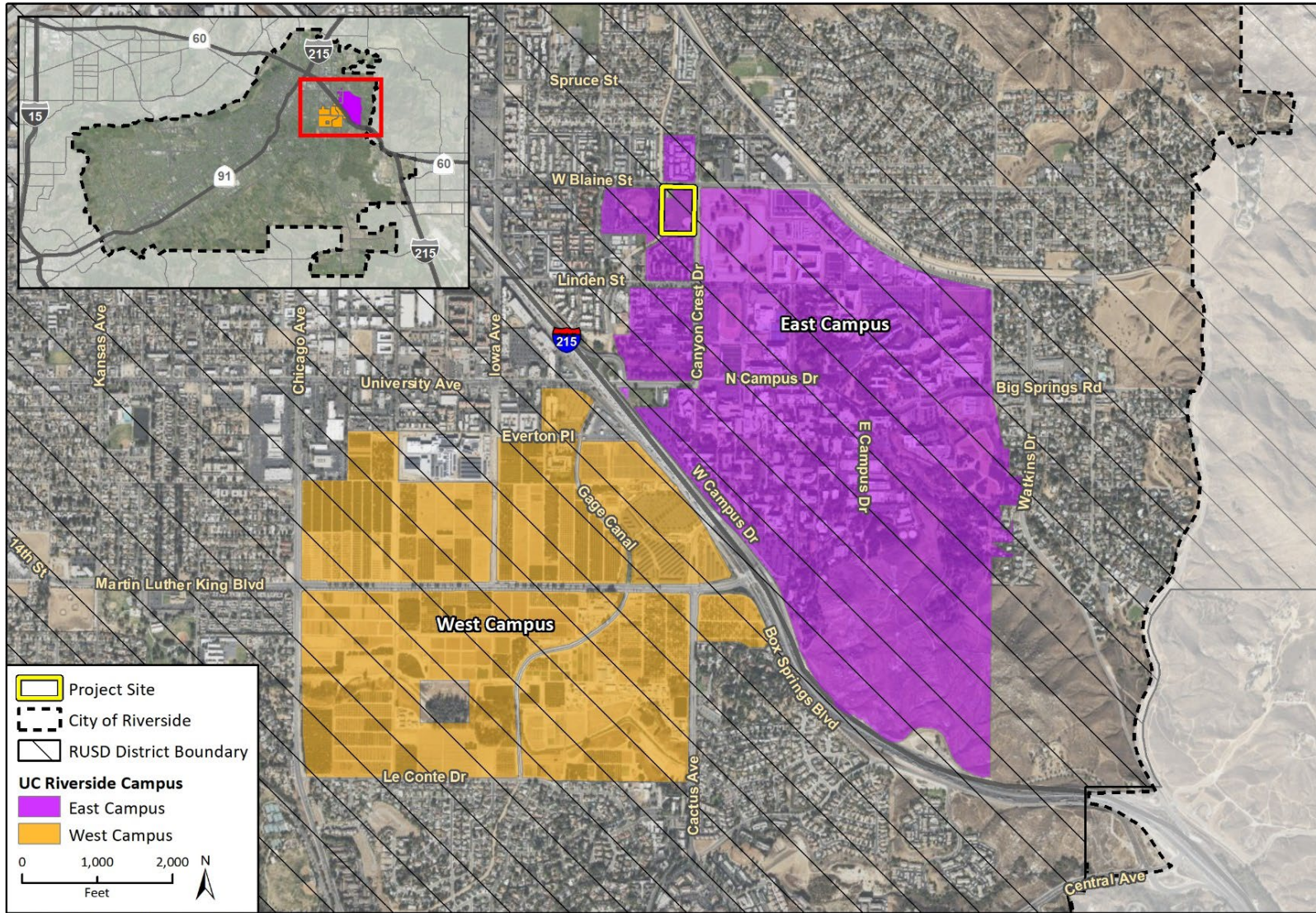
¹ Pursuant to Government Code Section 53094, Riverside Unified School District would be required to comply with the California Department of Education requirements for public schools. The School Facilities Planning Division (SFPD) 4.01 provides a list of requirements for public schools in which Item Number G6GG – Planning Commission Report would require local jurisdiction review.

² The total acreage of the project site is approximately 6.61 acres, which has been rounded to approximately seven acres for use throughout this Environmental Impact Report.

³ The T-Mobile Cell Tower Relocation Area is within an approximately 2,400-square-foot area of the approximately 11-acre APN 250-220-006.

Source: UCR 2021

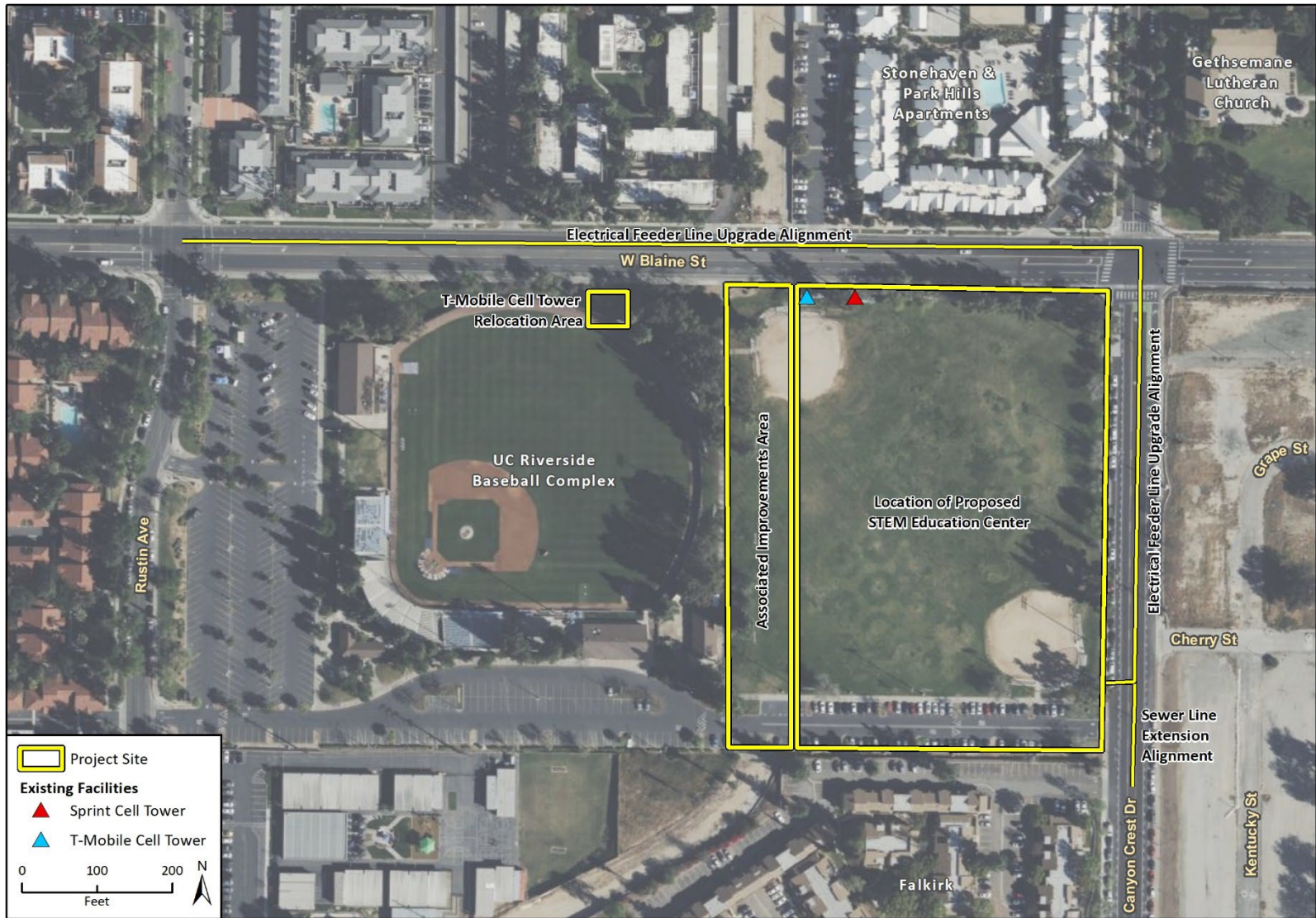
Figure 2-2 UCR Campus



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 Data provided by UC Riverside and County of Riverside, 2020.

Fig 2 Project Location

Figure 2-3 Location of Project Site



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Fig. 2-3 Location of Project Site and Off-Site Improvements

2.2 Project Need and Objectives

2.2.1 Project Need

RUSD offers a variety of academic and extracurricular enrichment programs, such as International Baccalaureate and Advanced Placement courses and subject- or special interest-specific clubs. However, the RUSD recognizes the increased needs and long-term demands within its district for STEM-focused academic programming solely dedicated to providing hands-on learning experiences in tandem with the academic curriculum geared toward exposing and preparing students to STEM fields emphasizing science, technology, engineering, and mathematics.

2.2.2 Project Objectives

The objectives of the RUSD STEM Education Center are to:

- Establish a flagship STEM education facility at a safe and secure location within the RUSD to meet the emerging science, technology, engineering, and mathematics needs and demands of RUSD's service population where students can learn to grow into careers in these fields;
- Promote, foster, and enrich an early college environment through co-location of the STEM education facility with a research and science-based institution such as UCR to facilitate collaboration;
- Improve access for approximately 1,200 RUSD students every school year to a state-of-the-art STEM education facility while limiting disruption to existing RUSD facilities;
- Provide a STEM site to support students in grades 9 through 12, with adequate support spaces, multi-functional indoor and outdoor spaces, amenities, and associated infrastructure while meeting applicable UCR and UC policies and guidelines;
- Enhance the high-school student experience by integrating in-class academic STEM curriculum with hands-on interactive practicum opportunities on campus and improved student-to-student collaboration;
- Promote environmental and sustainability principles through efficient use of space and thoughtful building and landscape designs that integrate and enhance the existing neighboring communities;
- Develop the UCR East Campus in a manner compatible with land uses identified in the UCR Long Range Development Plan.

2.3 Project Characteristics

The proposed project entails development of an approximately 80,000 gross square foot (gsf), three-story, approximately 50-foot-tall school facility that would contain classrooms, lecture facilities, a multi-use discovery center, a fabrication lab, food service, a fitness center, administrative offices, outdoor learning areas, landscape, hardscape, and associated site improvements. Students in sport extra-curricular activities will participate in already established programs at high schools throughout the RUSD. The proposed project is expected to serve a capacity of approximately 800 students at any given time, approximately 1,200 students daily (see full-time/part-time student schedule below), and approximately 60 faculty and staff. The existing STEM facility at the former Hyatt Elementary School site located at 4466 Mt. Vernon Avenue, Riverside, CA 92507, currently serves students in grades 5 through 12. During the 2021-2022 school year, approximately 411 5th to

8th grade students and 238 9th through 12th grade students were enrolled at this school. Upon completion of the proposed project, students in grades 9 through 12 would be relocated to the proposed STEM Education Center while the existing Hyatt Elementary School would continue to serve grades 5 through 8.

The proposed estimated schedule for the STEM Education Center is as follows:

- Morning bus arrival would occur at approximately 7:45 a.m. and departure would occur by approximately 8:00 a.m.
- Students would arrive between approximately 7:30 a.m. and 8:15 a.m. via parent drop-off or personal vehicles.
- Approximately 400 full-time students and approximately 400 part-time students would attend from 8:30 a.m. until 12:00 p.m.
- Buses for part-time afternoon students would arrive at approximately 12:00 p.m. and depart by approximately 12:30 p.m.
- Approximately 400 full-time students and approximately 400 part-time students would attend from approximately 12:30 p.m. until approximately 3:30 p.m.

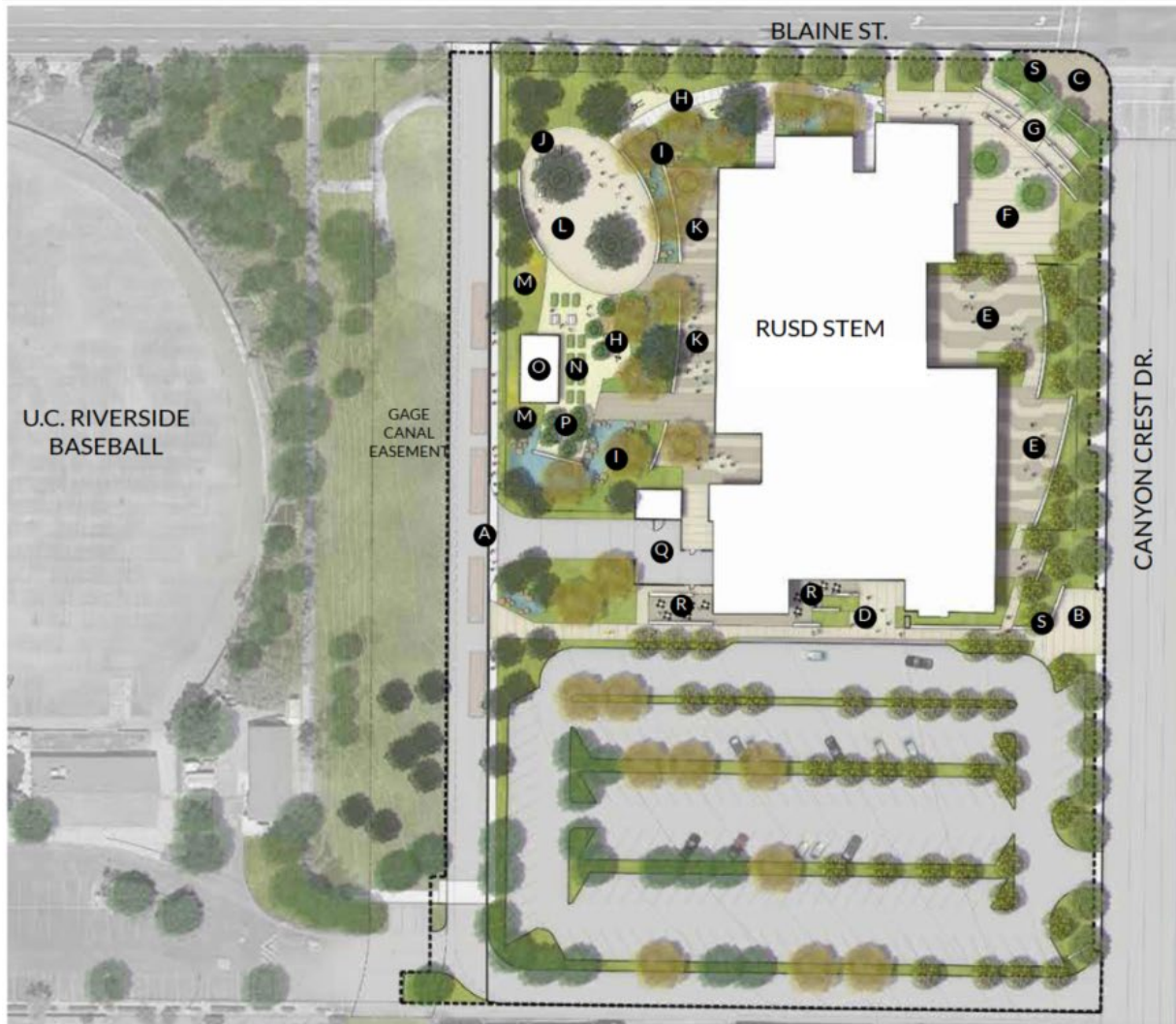
The RUSD STEM Education Center may occasionally be used as late as 10:00 p.m. for RUSD school-specific uses and activities as well as by UCR. Request for rentals by third parties would be considered by RUSD as required by the Civic Center Act. RUSD anticipates the school may host two to three special events (e.g., fundraisers) per year that may take place on weekends and one to two nighttime events per month (e.g., back to school night) aligned with the academic calendar and/or the needs of the school community and District events.

The existing Sprint/Crown Castle Cell Tower is planned to be decommissioned independently of the proposed project, and no replacement is proposed. The T-Mobile Cell Tower would be decommissioned, removed from the proposed location of the STEM Education Center, and relocated to the northern portion of the adjacent UCR Baseball Complex as part of the proposed project. The existing open recreational fields (two baseball diamonds) would be removed during construction of the proposed RUSD STEM Education Center and are not planned to be replaced, although additional recreational fields are included in the currently under-construction North District Development Phase 2 Project.

2.3.1 Proposed STEM Education Center Site Plan

The main RUSD STEM Education Center building would be located primarily on the northeast quadrant of the proposed location of the STEM Education Center, with approximately 40- to 65-foot setbacks from Blaine Street and Canyon Crest Drive, respectively. The southern half of the proposed location of the STEM Education Center would contain a surface parking lot with approximately 153 spaces for staff/faculty, visitor, and student use. Additional accessory buildings and programmed areas would include a service building and greenhouse located to the west of the main building; an amphitheater located on the northeast corner of the proposed location of the STEM Education Center, and a project testing area located to the east of the main building. Figure 2-4 shows the proposed site plan for the STEM Education Center, and Figure 2-5 and Figure 2-6 show the proposed building elevations.

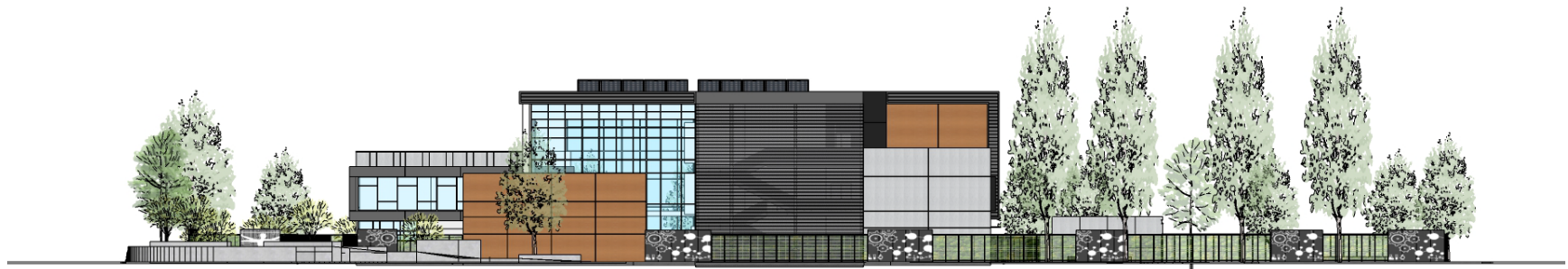
Figure 2-4 STEM Education Center Site Plan



PROGRAM ELEMENTS

- A BUS DROP-OFF
- B CANYON CREST ENTRY
- C UCR CAMPUS ENTRY PLAZA
- D ENTRY PLAZA AND DROP-OFF
- E ROBOTICS TESTING AREA
- F STEM DEMONSTRATION PLAZA
- G AMPHITHEATRE
- H FITNESS EQUIPMENT
- I STORM WATER BASIN
- J STUDY TABLES
- K CLASSROOM PATIOS
- L GRADUATION PLAZA
- M POLLINATOR GARDEN
- N GARDEN BEDS
- O GREENHOUSE
- P TEACHING ORCHARD W/ SEATING
- Q SERVICE YARD
- R LUNCH / CAFE SEATING
- S SIGNAGE
- GAGE CANAL EASEMENT
- LIMIT OF WORK

Figure 2-5 Proposed Building Elevations (North and South)



North elevation

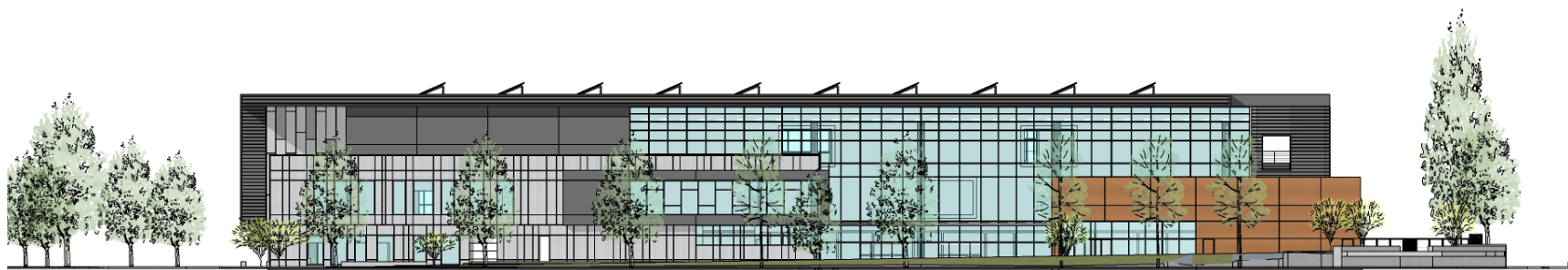


South elevation

Figure 2-6 Proposed Building Elevations (West and East)



West elevation



East elevation

2.3.2 Open Space, Amenities, and Landscaping

The landscape design for the STEM Education Center would holistically integrate the site with the campus landscape, the natural environment, and the architecture into a unified expression of place for the community, staff, students, and visitors.

The hardscape materials would reflect the character of the existing site materials with areas of accent and enhancement located at the entry plaza, main walkway, and gardens. Materials would be high quality and selected based on durability, ease of maintenance, and aesthetics.

Planting design would consist of plants that are native and/or adapted to the local climate and relate to the greater geographical context. Selected plants would be drought-tolerant with low water use, would be low-maintenance, and would provide seasonal color.

Large shade trees would be planted on the proposed location of the STEM Education Center along Canyon Crest Drive and Blaine Street to provide shade and seasonal color. Pine trees would be placed along the west edge of the site to provide visual screening from the play field to the campus buildings, and velvet ash trees would be placed along Blaine Street and Canyon Crest Drive. A mix of trees throughout the site would provide shade for garden areas and comfortable outdoor seating.

Garden planting would include a mix of shade-tolerant shrubs and succulents to provide textured foliage and contrasting colors. Shrubs and groundcover with seasonal color would provide visual interest and accent to the main entrance. The design intent would integrate and enhance the existing park-like landscape along both streetscapes.

The project site includes several outdoor space areas, including but not limited to:

- A patio with tables and seats located by the front entrance (south face) of the main building;
- An approximately 24,300 square-foot project learning area with planter beds and an accessory building located adjacent to the west side of the main building;
- An approximately 6,500 square-foot amphitheater located in the northeast corner of the proposed location of the STEM Education Center; and
- An approximately 9,000 square-foot outdoor project testing area located adjacent to the east side of the main building.

The project would also include the following landscaping throughout the site as shown in Figure 2-4:

- Landscaped parking medians with shade trees;
- Landscaped parking lot perimeter with shade trees;
- Landscaped perimeter of the proposed location of the STEM Education Center with shade trees along Blaine Street and Canyon Crest Drive; and,
- Shade trees in the project learning area.

2.3.3 Parking and Site Access

The proposed project would include an approximately 153-space surface parking lot located in the southern portion of the proposed location of the STEM Education Center, which would include the following spaces:

- Approximately 147 standard parking spaces with 25 electric vehicle capable spaces, six of which would be equipped with electric vehicle charging stations, pursuant to current California Green Building Standards Code (CALGreen) requirements (CALGreen Table 5.106.5.3.1)³
- Approximately six American with Disabilities Act-compliant parking spaces
- Private bus lane for student drop-off/pick-up
- Parent lane for student drop-off/pick-up

The main vehicle entry point would be located off Canyon Crest Drive and would lead cars into the parking lot area. A school drop-off lane would be provided by the front (south side) of the main building, which would be accessible from the main vehicle entry point.

A second driveway would be located off Canyon Crest Drive, approximately 80 feet south of the main vehicle entry point. The second driveway would be accessible to school buses and service vehicles only, including UCR vehicles, which would circulate in one direction by entering from the Canyon Crest Drive driveway and exiting from the Blaine Street driveway (located in the northwest corner of the proposed location of the STEM Education Center). Signage would be installed noting the restriction.

2.3.4 Utilities

Water and Wastewater

The project site has four large-volume (greater than 12-inch diameter) pipelines within 1,500 feet of the school site. A 60-inch diameter water line made of concrete (also known as the Gage Canal) is located beneath the parking lot and athletic fields immediately to the west of the proposed location of the STEM Education Center. Twelve-inch water lines are located beneath Canyon Crest Drive north and south of Blaine Street, and beneath Blaine Street east of Canyon Crest Drive. The existing topography of the proposed location of the STEM Education Center has a gradual 12-foot decline over 515 feet east to west where stormwater drains into five existing two-foot by two-foot drainage grates that discharge into underground drainage systems.

The campus has a combined fire and domestic water system. Riverside Public Utilities (RPU) provides potable water to the campus, including the project site. UCR has a private on-campus water system that conveys potable, fire, and irrigation water supplies throughout the campus as needed. RPU's Sewage Systems Services Program and Treatment Services unit collects, treats, and disposes of all wastewater generated by the UCR campus, including the project site (UCR 2019). The project would tie-in to existing water lines in Blaine Street and Canyon Crest Drive. As part of this tie-in, additional fire hydrants may be installed on-site and/or along the street frontage. The project would also include an approximately 175-foot-long extension of an existing eight-inch sewer line in Canyon Crest Drive from the northernmost driveway of the Falkirk Apartments to the southeastern

³ An "electric vehicle capable space" is a vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways to support electric vehicle charging (CALGreen Section 202).

corner of the project site. Other existing water utilities within the project site would be protected in place, replaced, or relocated within the site boundaries, as necessary.

Solid Waste

The proposed STEM Education Center's solid waste would be managed by RUSD's Maintenance, Operations, and Transportation (MOT) division. Solid waste would be picked up two to three times a week, typically between the hours of 4:00 a.m. and 12:30 p.m., and taken to the Agua Mansa Materials Recovery Facility (MRF) where an on-site robotic conveyor machines separate solids and recyclables. Cardboard would be picked up from the proposed location of the STEM Education Center once every two weeks and also taken to the Agua Mansa MRF. Green waste would be managed by the RUSD greenscape team. All green waste would be removed from the proposed location of the STEM Education Center and processed at the Cleveland and Meyers RUSD site where it would then be recycled and converted to mulch for re-use at RUSD sites. Extra green waste would occasionally be taken to Agua Mansa MRF in 40 cubic yard roll-off dumpster trucks owned by RUSD.

Energy

The proposed project would require the use of electricity for lighting, appliances, heating, and cooling as well as natural gas for cooking and laboratory uses. No natural gas would be used for space or water heating pursuant to the version of the University of California, Office of the President's Policy on Sustainable Practices in effect in September 2018, to which the project would be subject per agreement of UCR and RUSD. UCR purchases electricity for campus operations from RPU and through a power purchase agreement for on-site generation from the campus' solar infrastructure which, on average, produces approximately 11.6 megawatt-hours (MWh) of electricity. The campus supply of natural gas is derived from Southern California Gas (SCG), which currently delivers natural gas to campus through high pressure distribution lines. UCR privately distributes medium pressure gas throughout East Campus and West Campus. The project's electricity and natural gas demand would be independently served by RPU and SCG, respectively. The proposed project would connect to existing natural gas lines in Canyon Crest Drive and/or Blaine Street. Implementation of the proposed project would require installation of an electrical feeder line upgrade (approximately 1,900 linear feet) located within the public rights-of-way of Canyon Crest Drive and Blaine Street near the proposed location of the STEM Education Center. This electrical feeder line upgrade would be sized to serve only the electricity demand of the proposed project.

Stormwater

The proposed project would include installation of on-site stormwater improvements, the nature and extent of which would be determined through preparation of a Water Quality Management Plan and compliance with UCR's campus-wide stormwater permits. Any stormwater runoff from the project site would be routed to existing stormwater drainage facilities in Blaine Street and Canyon Crest Drive.

2.3.5 Associated Improvements Area

Work within the associated improvements area would be limited to the removal of existing bleachers, lighting, and the baseball diamond; installation of replacement landscaping or conditions similar to that of the existing Gage Canal portion north of Blaine Street; and replacement or relocation of an existing water utility line that runs below the Gage Canal. No modifications to the

Gage Canal itself would occur, and no heavy equipment would be utilized on top of the Gage Canal to complete these improvements.

2.3.6 Off-Site Improvements

Grading within the City's right-of-way along Blaine Street and Canyon Crest Drive would occur during site preparation and grading to install the proposed driveways. In addition, a traffic signal would be installed at the main project driveway on Canyon Crest Drive to allow for protected turns into and out of the proposed location of the STEM Education Center. A stop sign would be installed at the second driveway. The work within the City's right-of-way would require an encroachment permit.

2.3.7 Construction

For purposes of this California Environmental Quality Act (CEQA) analysis, construction activities are anticipated to begin around January 2026 (contingent on State approval) and last for approximately 32 months. Construction activities would include:

- Demolition (approximately 30 days)
- Site Preparation (approximately 45 days)
- Grading (approximately 45 days)
- Building Construction (approximately 20 months)
- Architectural Coating (approximately 180 days)
- Paving (approximately 60 days)

Depending on the construction phase, implementation of the proposed project would require common equipment, such as a dozer, tractor/loader/backhoe, concrete/industrial saw, crane, forklift, paver, roller, compressor, cement and mortar mixers. As required by the National Pollutant Discharge Elimination System Construction General Permit for projects disturbing more than one acre of land, soil erosion from the project site during construction would be controlled with best management practices (BMPs), including the use of sandbags as barriers. The construction site would be encircled by sandbags, and stabilized driveways would be provided at construction entrance and exit areas. Appropriate BMPs to minimize sediment entering the storm drain system would be provided.

The proposed project would remove ornamental trees, landscaping, lighting, and asphalt from the existing surface parking area in the southern portion of the proposed location of the STEM Education Center. Temporary construction staging and laydown area and worker parking would be within the project site.

Approximately 29,500 square feet of asphalt (0.67 acre) would be demolished during construction, resulting in approximately 590 tons of demolition material. Approximately 250,000 square feet (5.7 acres) of the project site would be graded. Approximately 33,000 cubic yards of soil would be excavated (cut) and 33,000 cubic yards would be required for fill during grading activities. No soil import or export would be required. Approximately 146,597 square feet of the site would be surfaced with asphalt and concrete. The maximum depth of ground disturbance during project construction would be approximately six feet.

2.3.8 Green Building Features

The proposed project's overall design would meet minimum Leadership in Energy and Environmental Design (LEED) Silver certification, which would be achieved by using less water and energy and reducing greenhouse gas emissions compared to a non-certified LEED commercial building. A building can earn credits toward LEED certification through performance in five key areas including sustainable sites, water savings, energy and atmosphere, materials and resources, and indoor environmental quality. Solar panels and water conservation elements would be incorporated into the project design to reduce the building's energy utilization and achieve LEED certification. Half of the roof would contain solar panels to capture solar energy.

2.4 Required Approvals

UCR is the Lead Agency for the proposed project. As Lead Agency, UCR has the discretion to approve or deny the project. The proposed project would require the following UCR approvals and entitlements, along with standard building and grading permits from UCR:

1. **Ground Lease and associated Development Terms/ancillary agreements.** A Ground Lease Agreement would be required to provide for the term of the lease, operations, programming, legal provisions, contractual references, vesting, and financial terms for both parties to allow for the development of the project and its implementation into the future.
2. **T-Mobile Cell Tower.** For removal of the existing cell tower and installation of the relocated tower, T-Mobile would submit documents for the lifting crane (if on campus lands) for UCR approval and obtain Federal Communications Commission (FCC)/Federal Aviation Administration approval/license for telecommunication facilities for UCR's records.
3. **Environmental Impact Report (EIR).** Preparation and certification of this project-specific EIR is required to analyze the potential environmental impacts of project implementation.

In addition, the proposed project would require the issuance of encroachment permits from the City of Riverside for sidewalk improvements, roadway improvements, traffic signal installation, curb and gutter, fire hydrants, utility boxes, crane lift for cell tower, drainage, and driveway entrances, among others.

The following approvals are anticipated from responsible agencies:

- **Riverside Unified School District Board of Education.** Board approval required for Final EIR, project design, project budget, bidding and contracting, and all purchase orders/contracts related to construction activities.
- **California Department of Education (CDE):** Approval that the site meets educational specifications per Title 5 of the California Code of Regulations.
- **Department of Toxic Substances Control (DTSC).** Approval of Preliminary Environmental Assessment (PEA) report and issuance of No Further Action (NFA) letter.
- **California State Water Resources Control Board (CSWRCB).** Storm Water Pollution Prevention Plan and Document (SWPPP) Preparation, Notice of Intent (NOI) Filing, Submittal of Permit Registration Documents into the Storm Water Multiple Application and Report Tracking System (SMARTS).
- **California Geological Survey of the California Department of Conservation.** Approval of Geologic Hazard Report.

- **Division of State Architect (DSA).** Construction plans to be approved by DSA.

The project would also require the following consultation processes to move forward:

- **Assembly Bill (AB) 52.** Pursuant to AB 52, the proposed project would be required to notify and consult with local tribes who requested notification from UCR and/or RUSD for projects subject to CEQA. Information pertaining to the AB 52 consultation process for this project is included in Section 4.18, *Tribal Cultural Resources*, of this EIR as well as Appendix I.

2.5 References

University of California Office of the President. 2018. Policy on Sustainable Practices. August 10, 2018.

University of California, Riverside (UCR). 2019. Sewer System Master Plan. https://ehs.ucr.edu/sites/g/files/rcwecm1061/files/2019-07/UCR%20SSMP_May%202019%20revision.pdf (accessed July 2022).

_____. 2021. University of California, Riverside 2021 Long Range Development Plan Draft Environmental Impact Report. <https://pdc.ucr.edu/sites/g/files/rcwecm2356/files/2021-07/2021%20LRDP%20Draft%20EIR.pdf> (accessed July 2022).

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3 Environmental Setting

This section provides a general overview of the environmental setting for the proposed project. For a typical EIR, the environmental setting is controlled by California Environmental Quality Act (CEQA) Guidelines Section 15125, which states in part:

- (a) An EIR must include a description of the physical environmental conditions in the vicinity of the project. This environmental setting will normally constitute the baseline physical conditions by which a lead agency determines whether an impact is significant. The description of the environmental setting shall be no longer than is necessary to provide an understanding of the significant effects of the proposed project and its alternatives. The purpose of this requirement is to give the public and decision makers the most accurate and understandable picture practically possible of the project's likely near-term and long-term impacts.
 - (1) Generally, the lead agency should describe physical environmental conditions as they exist at the time the notice of preparation is published, or if no notice of preparation is published, at the time environmental analysis is commenced, from both a local and regional perspective. Where existing conditions change or fluctuate over time, and where necessary to provide the most accurate picture practically possible of the project's impacts, a lead agency may define existing conditions by referencing historic conditions, or conditions expected when the project becomes operational, or both, that are supported with substantial evidence. In addition, a lead agency may also use baselines consisting of both existing conditions and projected future conditions that are supported by reliable projections based on substantial evidence in the record.

CEQA Guidelines and case law recognize that the date for establishing an environmental baseline cannot be rigid (see CEQA Guidelines Sections 15146, 15151, and 15204). Environmental conditions may also change during the period of environmental review, and temporary lulls or spikes in operations that happen to occur during the period of review should not depress or elevate the baseline. Furthermore, environmental conditions may vary from year to year, and in some cases, it is necessary to consider conditions over a range of time periods.

In order to fulfill this requirement, and to inform the reader of the context in which the proposed project would be carried out, this section generally describes current environmental conditions of the project site. UCR began planning for the proposed project at the current project site in 2018, with the formal kick-off in 2021. The environmental review process began in 2021, and the campus released the Notice of Preparation (NOP) in February 2022. More detailed descriptions of the environmental setting for each environmental issue area can be found throughout Section 4, *Environmental Impact Analysis*.

3.1 Regional Setting

The project site is located in the City of Riverside (City), which is in Riverside County. The City is part of a larger geographic area popularly known as Inland Southern California (see Figure 2-1 in Section 2, *Project Description*). Inland Southern California includes western Riverside and southwestern San Bernardino counties and portions of the Pomona Valley in easternmost Los Angeles County. The City is bordered by Jurupa Valley and the unincorporated community of Highgrove to the north, Moreno

Valley and Box Springs Mountain Reserve to the east, the unincorporated community of Woodcrest to the south, and Norco and the unincorporated community of Home Gardens to the west.

Regional access is provided via the Interstate 215/State Route 60 (I-215/SR 60) freeway, which traverses northwest-southeast through the City, and State Route 91, which traverses northeast-southwest through the City. Local access is provided by various arterial roadways that intersect the City, including Mission Inn Avenue, Magnolia Avenue/Market Street, Central Avenue, and Main Street, among others.

The City experiences a Mediterranean semi-arid climate. Temperatures vary widely, with wintertime lows occasionally dropping below freezing and highs in summer often exceeding 100 degrees Fahrenheit. Pleasantly warm conditions typify the area in the spring and fall. Although air quality in the area has steadily improved in recent years, the Inland Southern California region remains a nonattainment area for the federal standards for ozone and particulate matter measuring 2.5 microns or less in diameter (PM_{2.5}) and the State standards for ozone, particulate matter measuring 10 microns or less in diameter (PM₁₀), and PM_{2.5} (South Coast Air Quality Management District 2018).

3.2 Project Location and Setting

As noted in Section 2, *Project Description*, for the purposes of this EIR, the project site encompasses five non-contiguous areas in close proximity to each other – the proposed location of the STEM Education Center, the T-Mobile Cell Tower Relocation Area, the electrical feeder line upgrade alignment, the sewer line extension alignment, and the associated improvements area. The existing setting and surroundings of each of these five areas are discussed below.

Location of STEM Education Center

The approximately seven-acre site of the proposed STEM Education Center is located at 956 Blaine Street, Riverside, California 92507 and encompasses Assessor's Parcel Number (APN) 250-220-008 and APN 250-220-003. The location of the proposed STEM Education Center is currently occupied with open recreational fields with two baseball diamonds, the T-Mobile and Sprint Cell Towers, and surface parking. As shown in Figure 2-2 in Section 2, *Project Description*, the location of the proposed STEM Education Center is in an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive on UCR's East Campus. As noted in Table 2-1 in Section 2, *Project Description*, the location has a General Plan land use designation of Public Facilities (PF) and is zoned Multi-Family Residential (R-3-1500) and PF. APN 250-220-008 also has a 2021 Long Range Development Plan (LRDP) land use designation of Canyon Crest Gateway.

As shown in Figure 2-2 in Section 2, *Project Description*, the location of the proposed STEM Education Center is bordered by residential development, institutional, and commercial development. Canyon Crest Drive borders the location to the east, and Blaine Street borders the location to the north. The Falkirk Apartments for student housing and a portion of the underground Gage Canal are immediately to the south of the location, and the underground Gage Canal, surface parking, and the UCR Baseball Complex are immediately to the west of the location. The Stonehaven Apartments for student housing and a mix of church, apartments, and commercial uses are located along Blaine Street to the north/northeast/northwest of the location of the proposed STEM Education Center. The mostly undeveloped North District Development area is located along Canyon Crest Drive to the east of the location. To the southwest of the location is a portion of the underground Gage Canal, the REACH Leadership STEAM Academy, and a church.

T-Mobile Cell Tower Relocation Area

As shown in Figure 2-3 in Section 2, *Project Description*, the T-Mobile Cell Tower Relocation Area is an approximately 2,400-square-foot area located at the UCR Baseball Complex on APN 250-220-006. The area consists of a landscaped area behind the outfield and contains maintained grass and trees. The area has a General Plan land use designation and zoning of PF and has a 2021 LRDP land use designation of Recreation & Athletics.

As shown in Figure 2-3 in Section 2, *Project Description*, the T-Mobile Cell Tower Relocation Area is bordered by Blaine Street to the north and the UCR Baseball Complex to the west, south, and east. The location of the proposed STEM Education Center is approximately 130 feet to the east of the area. Additional nearby land uses include the underground Gage Canal to the east, the Park Hill Apartments to the north across Blaine Street, and Parking Lot 26 to the west. Given the proximity of this area to the project site, other surrounding land uses are similar to those of the location of the proposed STEM Education Center.

Electrical Feeder Line Upgrade Alignment

As shown in Figure 2-3 in Section 2, *Project Description*, the proposed electrical feeder line upgrade alignment is approximately 1,900 linear feet located within the public rights-of-way of Canyon Crest Drive and Blaine Street near the location of the proposed STEM Education Center. The alignment traverses the Gage Canal, which crosses under Blaine Street.

As shown in Figure 2-3 in Section 2, *Project Description*, the electrical feeder line upgrade alignment is surrounded by similar land uses as the location of the proposed STEM Education Center, including the mostly undeveloped North District Development area to the east; the Stonehaven Apartments for student housing and a mix of church, apartments, and commercial uses to the north/northeast/northwest; and the location of the proposed STEM Education Center to the west and south.

Sewer Line Extension Alignment

As shown in Figure 2-3 in Section 2, *Project Description*, the sewer line extension alignment is an approximately 175-foot-long alignment located within the public right-of-way of Canyon Crest Drive near the southeastern portion of the location of the proposed STEM Education Center.

As shown in Figure 2-3 in Section 2, *Project Description*, the sewer line extension alignment is surrounded by similar land uses as the location of the proposed STEM Education Center and electrical feeder line upgrade alignment, as described above, including the mostly undeveloped North District Development area to the east; Falkirk Apartments for student housing to the south; and the location of the proposed STEM Education Center to the west and north.

Associated Improvements Area

As shown in Figure 2-3 in Section 2, *Project Description*, the associated improvements area is approximately 0.7 acre in size and is located on top of the underground Gage Canal, between the UCR Baseball Complex and proposed location of the STEM Education Center. The associated improvements area currently contains part of an open recreational field with a portion of a baseball diamond, bleachers, lighting, and surface parking. The area is on APN 250-220-002, which has a General Plan land use designation and zoning of PF. This area will not become part of the STEM Education Center once constructed but is included in the EIR because minor improvements within this area will be required during construction.

As shown in Figure 2-3 in Section 2, *Project Description*, existing surrounding uses to the associated improvements area are similar to those of the location of the proposed STEM Education Center, including the location of the proposed STEM Education Center to the east; the underground Gage Canal, Stonehaven Apartments for student housing and other apartments to the north; the UCR Baseball Complex to the west; and the underground Gage Canal and Falkirk Apartments for student housing to the south.

3.3 References

South Coast Air Quality Management District. 2018. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin. September 2018. <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=14> (accessed August 2022).

4 Environmental Impact Analysis

This section discusses the possible environmental effects of the proposed project. CEQA Guidelines Section 15382 defines “significant effect on the environment” as:

a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic significance. An economic or social change by itself shall not be considered a significant effect on the environment. A social or economic change related to a physical change may be considered in determining whether the physical change is significant.

Scope of the Environmental Impact Analysis

Sections 4.1 through 4.20 of this EIR examine the potential environmental impacts associated with implementation of the proposed project and focus on the following issues:

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems
- Wildfire

In some instances, several of the underlying significance criteria address overlapping issues and may be combined into an individual impact analysis in this EIR.

Technical Analyses and Reports

Technical studies specific to the proposed project and/or project site were prepared to accurately analyze specific environmental impacts of the proposed project. They are identified in the discussions for the individual environmental issues and are included as technical appendices to the EIR. The technical studies and other supporting studies prepared for the proposed project include the following:

- Air Quality, Energy, and Greenhouse Gas Emissions Modeling
- Special-Status Species in the Regional Vicinity of the Project Area
- Cultural Resources Assessment
- Preliminary Environmental Assessment Report
- Noise and Vibration Modeling
- CEQA Transportation Impact Analysis

General Format of the Environmental Analysis

As provided by Section 15126.2(a) of the CEQA Guidelines, direct, indirect, and on-site and/or off-site impacts are addressed, as appropriate, for each environmental resource area. Sections 4.1 through 4.20 of this EIR contain a discussion of the potential environmental effects from implementation of the proposed project, including information related to existing site conditions, analyses of the type and magnitude of individual and cumulative environmental impacts, regulations and policies relevant to the environmental resources area, and mitigation measures that could reduce or avoid environmental impacts. The analysis of environmental impacts considers both the construction and operational phases associated with the proposed project.

Sections 4.1 through 4.20 follow the same general format:

- **Introduction.** Each section includes an introduction indicating the topic covered by the section with a brief outline.
- **Existing Conditions.** The Existing Conditions subsection includes an assessment of the existing environmental setting related to each issue area. According to Section 15125 of the CEQA Guidelines, an EIR must include a description of the existing physical environmental conditions in the vicinity of the project to provide the “baseline condition” against which project-related impacts are compared. Normally, the baseline condition is the physical condition that exists when the Notice of Preparation (NOP) is published. Unless indicated otherwise, the baseline condition is characterized as of February 16, 2022, which is the date of NOP publication.
- **Regulatory Framework.** The Regulatory Framework subsection provides a summary of regulations, plans, policies, and laws that are most applicable to the proposed project. However, the project site is located on the UCR campus, which is a part of the University of California, a constitutionally created entity of the State, with “full powers of organization and government” (California Constitution Article IX, Section 9). As a constitutionally-created State entity, UCR is not subject to municipal regulations of surrounding local governments, such as the City of Riverside’s (City) General Plan or land use ordinances, for uses on property owned or controlled by the University of California. Although there is no formal mechanism for joint planning or the exchange of ideas, UCR may consider, for coordination purposes, aspects of local plans and policies for the communities surrounding the UCR campus when it is appropriate and feasible, but it is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.
- **Impacts and Mitigation Measures.** The Impacts and Mitigation Measures subsection identifies the resource area “significance criteria” and analysis methodology used to determine whether impacts are considered significant.

The subsection further describes the impacts of the proposed project on each environmental resource area, proposed mitigation measures for significant impacts, and the level of significance after mitigation.

Each effect under consideration for an issue area is separately listed in bold text with the discussion of the effect and its significance. Each bolded impact statement also contains a statement of the significance determination for the environmental impact as follows:

- **Significant and Unavoidable.** The impact reaches or exceeds the defined threshold of significance and mitigation measures are therefore required, if feasible. However, the application of feasible mitigation measures would not reduce the impact to a less-than-significant level.
- **Less than Significant with Mitigation Incorporated.** The impact reaches or exceeds the defined threshold of significance and mitigation measures. Mitigation measures, if adopted, will reduce the significant impact to a less-than-significant level. If the proposed mitigation measures are not adopted, such impacts would be significant and unavoidable.
- **Less than Significant.** The impact does not reach or exceed the defined threshold of significance levels, and mitigation measures are not required.
- **No Impact.** No adverse effect on the environment would occur, and mitigation measures are not required.

Following each environmental impact discussion is a list of proposed mitigation measures (if determined to be necessary and feasible) and the residual effects or level of significance remaining after implementation of the mitigation measure(s). Consistent with CEQA Guidelines Section 15126.4, the EIR includes proposed mitigation measures if feasible; however, a final decision on those measures will not be made until the project is considered by the Regents and RUSD Board. Additionally, other agencies may have approval authority over some of the mitigation measures.

In cases where the mitigation measure for an impact could have a significant environmental impact in another environmental resource area, this impact is discussed and evaluated as a secondary impact in conjunction with the mitigation measure.

- **Cumulative Impacts.** Cumulative impacts refer to two or more individual effects which, when considered together, “are considerable or which compound or increase other environmental impacts” (CEQA Guidelines, Section 15355). CEQA requires that cumulative impacts be discussed when the “project’s incremental effect is cumulatively considerable... [or] ... provide a basis for concluding that the incremental effect is not cumulatively considerable (CEQA Guidelines Section 15130[a]).” This section evaluates the cumulative impacts associated with the proposed project in conjunction with other planned and pending developments in the area listed in Section 4.4, *Cumulative Development*, below.

The geographic scope defines the geographic area in which projects may contribute to a specific cumulative impact. The geographic scope of the cumulative impact analysis varies depending upon the specific environmental issue area being analyzed. Past, present, and future reasonably foreseeable projects within the defined geographic area for a given cumulative issue must be considered. CEQA Guidelines Section 15130(b) present two possible approaches for adequately discussing significant cumulative impacts. It indicates that either of the following can be used:

- A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency
- A summary of projections contained in an adopted local, regional or statewide plan, or related planning document, that describes or evaluates conditions contributing to the cumulative effect. Such plans may include: a general plan, regional transportation plan, or plans for the reduction of greenhouse gas emissions. A summary of projections may also be contained in an adopted or certified prior environmental document for such a plan. Such projections may be supplemented with additional information such as a regional modeling program.

Past and present projects are considered as part of the baseline when evaluating project impacts. Any exceptions are noted in the individual sections.

The cumulative analysis presented in this EIR also uses a projections-based approach. Development that occurs by the planning horizon of the proposed project is combined with growth projections of applicable planning documents. The analysis utilizes different geographic scopes depending on the specific environmental resource area; additional details are provided in the individual sections.

- **References.** This subsection identifies the sources relied upon in each section.

Cumulative Development

The cumulative analysis presented in this EIR uses either a projections-based approach or list of projects approach depending on the specific resource area. Development that occurs by the estimated buildout year of the proposed project is combined with the growth projections of applicable planning documents. The analysis utilizes different geographic scopes depending upon the specific environmental resource area; additional details are provided in the individual sections in Section 4.

To identify surrounding future and reasonably foreseeable projects, EIR preparers consulted the Cities of Riverside and Moreno Valley as well as the County of Riverside planning staff (Covarrubias 2022; Diaz 2022; Taylor 2022). Additionally, EIR preparers reviewed the City's General Plan, City-adopted neighborhood plans, and relevant specific plans to assess projected development described through the year 2045 (UCR 2021). The subsection on Long-Range Regional Growth describes these plans in more detail.

Where the relevant geographic area extends beyond this boundary, Southern California Association of Governments (SCAG) forecasts, the South Coast Air Quality Management District's 2022 Air Quality Management Plan, local Urban Water Management Plans, and other areas plans have been considered. Each resource section's cumulative analysis identifies the planning documents that correspond to the relevant geographic scope of the analysis.

Some UCR campus facilities and development proposals are also in process. Collectively, those campus projects are in various stages of development, including in the planning phase, design stage, or construction phase and are included as cumulative projects. Past and present operational projects are not presented in the table, as they have already been incorporated into baseline conditions.

The Cumulative Projects List is provided in Table 4-1. This list is not intended to be an all-inclusive list of projects in the region, but rather an identification of projects constructed, approved, or under review in the vicinity of the project site at the time the environmental analysis for the proposed project commenced. Projects in the vicinity of the project site considered near-term (e.g., will likely be developed in the foreseeable future) were selected based on location (within two miles of the project site) and size (affecting 10 or more acres, 100 or more units, or 100,000 or more square feet [sf]). This geographic area was considered due to the proximity to the project site and the potential for regionwide impacts.

Table 4-1 Cumulative Projects List

Project Name	Project Type	Approximate Project Size/ Dwelling Unit Count	Project Status
UCR Projects			
School of Business (east of South Campus Drive, north of College Place)	Academic	64,000 gsf	Construction started winter 2022 and anticipated to be completed fall 2024
North District Development Phase 2 (north of West Linden Street, east of Canyon Crest Drive)	Student Housing/Student Services	1,600 student housing beds and student housing support services totaling up to approximately 450,000 gsf; Central Park; surface parking; recreational area	Construction started fall 2023 and anticipated to be completed summer 2025
OASIS Park (south of University Avenue, north of Everton place, west of Interstate 215/State Route 60 freeway)	Light industrial, retail, and office space	70,000 gsf	Planning and environmental review commenced early 2023; demolition of a vacant University Extension building and parking structure anticipated in Spring/Summer 2024
Undergraduate Teaching and Learning Facility (east of the Canyon Crest Drive and University Avenue intersection)	Academic	120,000 gsf	Planning and environmental process commenced early 2023; construction anticipated Spring/Summer 2024
Student Health & Counseling Center	Academic/Student Services	39,449 gsf	Construction completed fall 2023
School of Medicine Education Building Ed II	Academic	85,250 gsf	Construction completed fall 2023
City of Riverside (within two miles of project site; greater than 10 acres, and/or more than 100 housing units or 100,000 sf of development)			
The Exchange/NEC Orange Street and Vista Avenue (APNs 209-020-022, -047, -048, -059, -060, -061, -062; 209-060-023, -027, -029; 209-070-015)	Mixed Use	482 multi-family units 44,500 gsf retail/restaurant 4,000 gsf gas station 229 hotel rooms 27 RV camping spaces	Currently in grading and building permit review
1151 Palmyrita Avenue (APN 247-170-039)	Warehouse	265,700 gsf	Proposed
2069 Massachusetts Avenue; 2626 Kansas Avenue (APNs 210-130-016; 210-130-015)	Industrial Buildings	199,998 gsf	Proposed
1535 West La Cadena Drive (APN 206-132-037)	Multi-Family Residential	115 multi-family units	Proposed
900 Marlborough Avenue (APN 249-130-026)	Warehouse	102,100 gsf	Proposed
3001 Iowa Avenue (APN 250-080-018)	Mixed-Use	299 multi-family units 1,385 gsf retail	Proposed

Project Name	Project Type	Approximate Project Size/ Dwelling Unit Count	Project Status
Sycamore Canyon Boulevard and Central Avenue (APN 256-050-012)	Apartment Complex	237 units	Entitled
3466 Mission Inn Avenue (APN 213-281-009)	Hotel	225 hotel rooms	Entitled

gsf = gross square feet; sf = square feet

Note: There are no currently planned projects or projects under construction in unincorporated Riverside County or the City of Moreno Valley that are within two miles of the project site; greater than 10 acres; and/or more than 100 housing units or 100,000 sf of development.

Source: Tang 2024; Covarrubias 2022; Diaz 2022; Taylor 2022

Long-Range Regional Growth

The City of Riverside and the San Bernardino-Ontario-Riverside region are urban environments that will continue to experience growth and development over time. Regional, long-range development, and transportation projects are directed by Connect SoCal, and SCAG’s Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). The broader impacts of Connect SoCal were evaluated in its Program EIR, which serves as a foundation for subsequent, site-specific environmental review documents for individual transportation and development projects in the region (SCAG 2019). Table 4-2 summarizes the 2022 population for the cities of Riverside and Moreno Valley as well as the San Bernardino-Ontario-Riverside region based on estimates from the California Department of Finance (DOF) and the 2020 SCAG forecast.

Table 4-2 Population Projections for the City of Riverside, Moreno Valley, and the San Bernardino-Ontario-Riverside Region

	2022 Population Estimate	2045 Population Estimate	Change 2022-2045
City of Riverside	317,847	395,800	77,953
City of Moreno Valley	209,407	266,800	57,393
San Bernardino-Ontario-Riverside Region ¹	718,203	895,400	177,197

¹ Population estimates for the San Bernardino-Ontario-Riverside region are comprised of the populations of the cities of San Bernardino, Ontario, and Riverside.

Sources: DOF 2022; SCAG 2020a

Local, long-range planning documents such as the City’s General Plan, neighborhood plans, and specific plans are designed to manage and direct growth in the area around the project site. These plans provide the context for longer-term cumulative impact analysis. The environmental impacts of each plan have been evaluated under CEQA, either as a separate CEQA document or included in the City’s General Plan EIR. The cumulative impact analyses in this Draft EIR reviewed the City’s neighborhood plans encompassing and abutting the project site.

CONNECT SOCAL

Connect SoCal is the 2020-2045 RTP/SCS adopted by SCAG in 2020. It is a long-range vision plan that balances future mobility and housing needs with economic, environmental, and public health goals. Connect SoCal embodies a collective vision for the region's future and was developed with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses, and local stakeholders in the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. The plan details how the region will address its transportation and land use challenges and opportunities in order to achieve its regional emissions standards and greenhouse gas emission reduction targets. The RTP/SCS is updated every four years. Connect SoCal contains over 4,000 transportation projects—ranging from highway improvements, railroad grade separations, bicycle lanes, new transit hubs, and replacement bridges. One such transportation project is the Riverside County Transportation Commission (RCTC) and Caltrans I-215 North Project to add two high-occupancy vehicle (HOV) lanes in an approximately 11-mile section of Interstate 215 from Nuevo Road in Perris to the I-215/SR 60 interchange in the City near Box Springs Road, approximately 3.3 miles southeast of the project site (SCAG 2020b).

CITY OF RIVERSIDE GENERAL PLAN

The City's 2025 General Plan, adopted in 2007 and amended in 2012, 2018, 2019 and 2021, is a strategic, long-range plan guiding growth to 2025. The main land use objectives of the General Plan include:

- Encouraging the revitalization of underutilized commercial properties through redesignation of lands for mixed-use development
- Allowing for higher-density residential uses at underutilized in-town locations
- Ensuring the provision of adequate public facilities and public services
- Accommodating the growth projected by SCAG in an environmentally-sensitive manner
- Providing circulation facilities adequate to serve proposed land uses and meet community needs
- Minimizing the negative impacts of regional traffic upon the City's local roadways
- Establishing policies to protect residents from negative air quality and noise impacts
- Preserving and enhancing the City's natural and cultural assets

The City amended the Land Use and Urban Design Element of the General Plan, including the land use policy map, in 2019 (City of Riverside 2019).

UNIVERSITY NEIGHBORHOOD PLAN

Included as Appendix C of the General Plan and adopted in 2008, the University Neighborhood Plan is intended to direct and manage growth and improve the quality of life in the University neighborhood, which encompasses the UCR campus and the single- and multi-family residential areas and retail areas north and east of the campus. The land use vision of the University Neighborhood Plan embodies the following goals:

- Protect the single-family neighborhoods nestled against the Box Springs Mountain Reserve Park to the east of the existing Watkins Drive and the University's need for quality, affordable housing for residents and UCR students, faculty, and staff

- Improve neighborhood shopping facilities where residents and UCR students, faculty, and staff can shop and meet in an appealing environment

The objectives and policies carried over from the City's General Plan 2025 to the University Neighborhood Plan recognize the importance of providing diverse housing opportunities in the University neighborhood, including new rental apartments, the retention of existing and future rental stock, and affordable housing units. These objectives and policies stress the importance of providing quality apartments and multi-family housing within the University neighborhood and recommend the development of future new student housing along the University Avenue corridor. Additionally, the objectives and policies encourage the protection of single-family neighborhoods and the minimization of potential town-grown conflicts. The University Neighborhood Plan also accommodates the expansion of UCR while ensuring the preservation and enhancement of residential areas within the University neighborhood and encourages the reuse or revitalization of underutilized commercial areas with appropriately scaled mixed-use developments to serve both residents and UCR students, faculty, and staff. A specific policy in the University Neighborhood Plan is to update the University Avenue Specific Plan to allow for mixed-use and residential development along the corridor that supports land use designations of the General Plan (City of Riverside 2008).

References

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4.1 Aesthetics

4.1.1 Introduction

This section describes the existing visual resources, including an identification of any scenic vistas, scenic routes, or new sources of light and glare at and around the project site and addresses the potential for implementation of the proposed project to result in impacts to aesthetics.

4.1.2 Existing Conditions

Regional Setting

The UCR campus is located on the eastern side of the City of Riverside (City), an urbanized area surrounded by natural landscape features, hills, ridgelines, and parkland. Higher elevation hills, such as the La Sierra/Norco Hills, Mount Rubidoux, Box Springs Mountains, Sycamore Canyon, and many other smaller ranges, shape the visual outline of the City's viewshed. The Santa Ana River watercourse and riverbed, located north of the City's boundary line, serves as a visual landmark for visitors and residents (City of Riverside 2007). The City is characterized by a pattern of auto-oriented, low- to medium-density land uses in an established urban environment typical of southern California, with areas of higher density and diverse uses in the downtown area along Market Street and Mission Inn Avenue, approximately three miles from campus (UCR 2021a).

Campus and Project Site Setting

The project site is located on UCR's East Campus. Most of East Campus features very gently rolling topography with multi-story buildings and a dense, mature urban landscape that includes shrubbery, grassy areas, pedestrian paths, and hardscaping. From within East Campus, the multi-story buildings are situated around the central open spaces on campus. At the edges, the campus' built environment opens to larger views that vary based on heights and orientations of adjacent development. The off-campus visual character of East Campus is surrounded to the north, west, and east by residential neighborhoods and some commercial centers. Two- to four-lane streets are lined with mature palm, pine, and other large trees. Most streets have sidewalks (UCR 2021a). The UCR Campus is generally not visible from most public locations east of the East Campus due to the minor elevation change and surrounding structures.

Specifically, the project site is located generally on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive and currently contains an open recreational field with two baseball diamonds, surface parking, the Sprint Cell Tower, the T-Mobile Cell Tower, ornamental landscaping, a portion of the UCR Baseball Complex, and the public rights-of-way of Blaine Street and Canyon Crest Drive. An existing chain link fence surrounds the location of the proposed STEM Education Center along Blaine Street, Canyon Crest Drive and a portion of the interior sides of the site. Existing sidewalks and bike lanes along Blaine Street and Canyon Crest Drive front the location of the proposed STEM Education Center and T-Mobile Cell Tower Relocation Area.

Existing surrounding uses to the project site include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Existing uses on Canyon Crest

Drive include the mostly undeveloped North District Development area located to the east;¹ Falkirk Apartments for student housing and a portion of the underground Gage Canal to the south; REACH Leadership STEAM Academy, a church, and a portion of the underground Gage Canal to the southwest; and the UCR Baseball Complex.

Scenic vistas visible from the UCR campus include publicly accessible and important panoramic views of the Box Springs Mountains approximately one mile to the north, northeast, east, and southeast; Mount Rubidoux approximately three miles to the west; the San Bernardino Mountains approximately 15 miles to the northeast; and the San Gabriel Mountains approximately 20 miles to the northwest. These scenic vistas may generally be seen from the existing Open Space Reserve, flat areas of expansive spaces in the East Campus, such as sections of Canyon Crest Drive. In other areas of East Campus, the existing views of the distant mountains are intermittent and substantially obstructed by on-campus and off-campus structures and trees.

The project site itself is not part of a scenic vista but is immediately south of a key viewpoint identified in the Draft EIR for the 2021 Long Range Development Plan (LRDP) that is located at the intersection of Blaine Street and east of Rustin Avenue, facing east. This viewpoint offers moderate views of the Box Springs Mountains to the northeast and east along with several mature trees (UCR 2021a). Visual quality is moderate from this viewpoint because development does not entirely block views of the distant mountains from public rights-of-way, but it also does not integrate into the natural environment in terms of its design and landscaping (UCR 2021a).

Existing sources of light and glare at the project site include pole-mounted field lighting that is utilized for recreational activities conducted daily, typically from sundown to 11:00 p.m. and infrequently past 11:00 p.m. Other existing sources of light and glare on the project site include headlights and taillights from vehicles entering and exiting the surface parking lot in conjunction with use of the fields.

4.1.3 Regulatory Framework

Federal

There are no applicable federal regulations regarding the protection of visual resources that would be applicable to the proposed project.

State

California Code of Regulations, Title 24

Title 24 of the California Code of Regulations (CCR), also known as the California Building Standards Code, consists of regulations to control building standards throughout the State. The California Electrical Code (Title 24, Part 3) and Green Building Standards Code (also referred to as the CALGreen Code; Title 24, Part 11) stipulate minimum light intensities for safety and security at pedestrian pathways, circulation ways, and paths of egress.

¹ The UCR North District Development (NDD) Phase 1 located at the southeastern portion of the NDD area, which includes approximately 1,500 student beds, was completed in Summer 2021. NDD Phase 2 is currently undergoing its planning and environmental process. Construction of the future phases of the North District area (e.g., residence hall beds, apartment beds, dining facilities, recreation) will be determined at a later date pending demand and funding.

The CALGreen Code (24 CCR, Part 11, Paragraph 5.106.8, *Light Pollution Reduction*) provides that all nonresidential outdoor lighting must comply with the following:

- The minimum requirements in the California Energy Code (CEC) for Lighting Zones 0 to 4 as defined in Chapter 10 of the California Administrative Code;
- Backlight ratings as defined in the Illuminating Engineering Society's Technical Memorandum on Luminaire Classification Systems for Outdoor Luminaires (IES TM-15-11);
- Uplight and Glare ratings as defined in the CEC; and
- Allowable backlight, uplight, and glare ratings not exceeding those shown in Table 5.106.8 in Section 5.106.8 of the CALGreen Code, or a local ordinance lawfully enacted pursuant to Section 101.7 of the CALGreen Code, whichever is more stringent.

The 2022 updates to the CALGreen Code went into effect on January 1, 2023. They require nonresidential buildings to maximize light emitting diode (LED) technology in indoor and outdoor lighting plans.

University of California

Design Review Process

UC Policy 5.1 requires independent architectural design review and independent cost estimates of projects when a total project cost exceeds \$5 million. The policy requires design reviews to be performed early in the design process, at suitable intervals during design, and at the time of completion of design. Selection of the review or reviewers and the format for the design review process are left to the discretion of the Chancellor. This policy is available online at <https://www.ucop.edu/construction-services/facilities-manual/volume-3/vol-3-chapter-5.html#5-1>. Additional information on the design process is available at <https://www.ucop.edu/construction-services/facilities-manual/volume-3/vol-3-chapter-1.html>.

University of California, Riverside

2021 Long Range Development Plan

The UCR 2021 LRDP is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP also includes objectives and policies relevant to aesthetics and visual resources, which are summarized in Table 4.1-1.

Table 4.1-1 UCR 2021 LRDP Objectives and Policies Related to Aesthetics and Visual Resources

Objective	Policy
Land Use Planning	
Serve as good stewards of limited campus lands and natural resources as UCR continues to grow and develop toward its enrollment goals.	Promote increased densities on East Campus through increased site coverage and heights of future projects flanking northern and western gateways and campus loop road.
Retain existing land-based research operations on West Campus, while balancing the need for innovative partnerships and initiatives.	Require increased development density on East Campus.
Generally locate higher density future growth adjacent to and outside of the campus loop road.	Allow increased heights and increased density on underutilized lands such as surface parking lots and in infill areas to meet future needs.
Enhance Canyon Crest Drive as a new campus “Main Street” and northern gateway.	Ensure that all proposed buildings include a mix of active uses that have a street interface.
Enhance campus edges to promote a welcoming impression to visitors and visually communicate the transition to campus-owned land areas.	Locate key campus community-related facilities to engage campus edges and enhanced landscape strategies.
Develop and maintain current principles and standards on the design of campus buildings and landscapes.	Provide project designers with a current version of the UCR <i>Physical Design Framework</i> and <i>Campus Construction and Design Standards</i> .
Open Space	
Balance open spaces with the built environment throughout all areas of campus and provide opportunities for indoor-outdoor relationships between campus facilities and the landscape.	Encourage new facility construction and renovations to activate first floors to allow for increased access and integration with the natural campus environment.
Consider views to Box Springs Mountains and the San Gabriel Mountains at the terminus of view corridors and from primary campus open spaces to the extent feasible.	Consider the preservation of terminal views from locations accessible to the general public along public corridors and panoramic views from primary open spaces in the location and configuration of new facilities or the introduction of new landscape features.
Demonstrate an increased commitment to preservation and enhancement of the natural environment through the design and placement of future campus landscapes.	Consider the ecological and potential stormwater management functions of proposed landscapes. Utilize climate-appropriate, native/drought-tolerant, and/or low maintenance landscape materials outside of signature campus open spaces.

Source: UCR 2021b

Physical Design Framework

The UCR *Physical Design Framework* provides guidelines for future architects and planners to inform any physical changes to the campus, emphasizing the elements of the campus physical setting, landscape, and infrastructure, as well as architectural themes characteristic to the University. It provides guidance on the broader character of the campus, layout, and specific focus areas as well as specific guidelines for facility orientation, materials, components, design and color palette, massing, and articulation. It includes simple and legible guidelines to shape the campus’ physical form, allowing the campus to evolve in a dynamic way that recognizes the physical and academic roots that define campus character.

Campus Construction and Design Standards

The 2007 *Campus Design Guidelines* has been recast and expanded as a living document in the form of the *Campus Construction and Design Standards*. This document includes up-to-date provisions related to lighting and includes requirements to focus on providing an even, consistent coverage to soften contrast ratios at edges and thus improve visibility by avoiding excess illumination and brightness. Details and specifications for light fixtures that meet these requirements have been incorporated as a campus standard.

UCR Design Review Process

Each proposed major capital project that involves new construction or exterior alterations undergoes a review process, consistent with the UC-wide process discussed earlier. Project designs are reviewed by the Design Review Board (DRB), which is comprised of outside design professionals who are advisory to the Chancellor, in discussion with the Campus Architect. For each major building, landscaping, or infrastructure project, a project-specific Project Advisory Committee offers programmatic and design input. The committee is made up of faculty, students, administrative leaders, and senior capital planning and design and construction staff.

The DRB, with the assistance of the Campus Architect, advises the Chancellor on the designs of new buildings, major landscape projects, and master planning efforts to ensure consistency with applicable planning principles and guidelines. All projects are reviewed a minimum of two times by the board. The responsibilities of the DRB include, but are not limited to, the following:

- To assure compatibility with the 2021 LRDP and supporting planning documents that have been adopted by the campus
- To review planning studies, proposed building designs and siting alternatives for compatibility with their settings and appropriateness to their function programs and budgets
- To ensure that proposals for new campus projects are presented in a broad context, with due consideration given at all points of project development to issues of landscape design, circulation, and environmental protection
- To review all aspects of exterior urban and landscape design and to provide guidance to the design teams, building committees, and the campus planning committee
- To identify and articulate planning and design issues critical to ongoing campus development to the campus community

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

City of Riverside General Plan

OPEN SPACE AND CONSERVATION ELEMENT

The Open Space and Conservation Element contains objectives and policies applicable to the proposed project to protect the natural and visual character of the community through the preservation and expansion of open space areas and linkages (Objective OS-1); ensure new development is effectively integrated through visual connections (Policy OS-1.6); limit the extent and intensity of uses and development in areas with scenic vistas (Policy OS-2.2); control the grading of land to minimize the potential negative aesthetic impact of excessive modification of natural landforms (Policy OS-2.3); strengthen the role of ridgelines, hillsides, and arroyos as significant natural and visual resources that define the character of the City (Policy OS-2.4); and preserve designated buffers between urban and rural uses for their aesthetic benefits (Objective OS-4) (City of Riverside 2012).

LAND USE AND URBAN DESIGN ELEMENT

The Land Use and Urban Design Element contains objectives and policies applicable to the proposed project to preserve prominent ridgelines and hillsides as important community visual assets (Objective LU-3) and minimize the visual impact of aerial facilities (e.g., utility lines, aboveground telecommunications facilities) on the City’s landscape (Objective LU-29) (City of Riverside 2019).

Riverside Municipal Code

TITLE 19, CHAPTER 19.100, RESIDENTIAL ZONES

Riverside Municipal Code Section 19.100.040, *Residential Development Standards*, establishes allowable land uses and property development standards for residential zones, such as the R-3-1500 zone. Development standards are established for maximum density; minimum lot area, width, and depth; building height; number of stories; lot coverage; and setbacks.

Riverside Municipal Code Section 19.100.070, *Additional Regulations for the R-3 and R-4 Zones*, includes requirements for distance between buildings, landscaping, lighting, site planning, building appearance, and fences and walls.

TITLE 19, CHAPTER 19.140, PUBLIC FACILITIES ZONE

Riverside Municipal Code Section 19.140.030, *Development Standards for Public Facilities*, establishes development standards for the Public Facilities zone, including setback, building height, landscaping, screening, and lighting requirements.

4.1.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Aesthetics to assess the proposed project.

Would the proposed project:

- a. Have a substantial adverse effect on a scenic vista?

- b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?
- c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, conflict with applicable zoning and other regulations governing scenic quality?
- d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?

Methodology

The evaluation of potential aesthetic and visual resource impacts is based on review of the project site and surrounding environment. In determining the level of significance, this analysis focuses on the nature and magnitude of visual change, the number of public vantage points from where this change would be visible, and the number of viewers who would be affected by this change. Additionally, this analysis considers viewer sensitivity as a function of the visibility of resources in the landscape, the proximity of the viewers to the visual resource, elevation of the viewers relative to the visual resource, frequency and duration of views, numbers of viewers, and types and expectations of individuals and viewer groups.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project have a substantial adverse effect on a scenic vista?

Impact AES-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT HAVE A SUBSTANTIAL ADVERSE EFFECT ON A SCENIC VISTA. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Scenic vistas in the vicinity of the project site consist of partial views of the Box Springs Mountains visible from public vantage points (i.e., roadways and sidewalks). These partial views are primarily visible by motorists and pedestrians travelling eastbound on Blaine Street looking east, northbound/southbound on Canyon Crest Drive looking east/west respectively, and northbound/southbound on Rustin Avenue (approximately 710 feet to the west of the project site) looking east/west respectively. Figure 4.1-1 provides a representative partial view of the scenic vista of the Box Springs Mountains from Blaine Street facing east. The proposed project would be constructed south of Blaine Street and west of Canyon Crest Drive and therefore would not obstruct partial views of scenic vistas of the Box Springs Mountains from these vantage points. In addition, existing partial views of this scenic vista facing east/west from Rustin Avenue (while traveling northbound/southbound) would not be substantially impaired by the proposed project because project features visible from this vantage point would consist of a surface parking lot with landscaping and potentially a portion of the STEM Education Center building, which would be similar to existing conditions and views of other existing structures. Furthermore, in the vicinity of the project site, existing views of the distant mountains are not expansive but rather are intermittent and partially obstructed by trees, on-campus buildings, and off-campus buildings. Therefore, the proposed project would not have a substantial adverse effect on a scenic vista, and impacts would be **less than significant**.

Figure 4.1-1 View East on Blaine Street with Stonehaven Apartments to the Left of Image and the Project Site to the Right



Source: Stephanie Tang 2021

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?

Impact AES-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT SUBSTANTIALLY DAMAGE SCENIC RESOURCES, INCLUDING BUT NOT LIMITED TO, TREES, ROCK OUTCROPPINGS, AND HISTORIC BUILDINGS WITHIN A STATE SCENIC HIGHWAY. NO IMPACT WOULD OCCUR, AND NO MITIGATION MEASURES ARE REQUIRED.

The City, in which the project site, is located does not contain any State Scenic Highways identified by the California Department of Transportation (Caltrans; 2019); thus, the project site is not located near or along a State Scenic Highway. Therefore, the proposed project would not substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway, and **no impact** would occur.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

No impact would occur without mitigation.

Threshold c: Would the proposed project, in non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point.) If the proposed project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Impact AES-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CONFLICT WITH APPLICABLE UC, UCR, AND CITY REGULATIONS GOVERNING SCENIC QUALITY. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site is located in an urbanized area. As noted in Section 4.1.3, *Regulatory Framework*, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by the University of California. However, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094. Therefore, this analysis focuses on the proposed project's potential to conflict with applicable UC and UCR regulations the City's General Plan policies, and the City's zoning regulations.

Construction

Potential visual impacts would arise from intermittent construction activities (i.e., mobilization and staging, grading, vertical construction, paving). During construction, areas of the project site would be graded and excavated, and existing site features would be demolished and removed, which would include the existing cell towers, asphalt, fencing, recreational lighting, and landscaping. During the construction phase, the presence of trucks with building materials and equipment would result in short-term visual degradation of the project site. Visual degradation would be limited to the duration of construction and to the project site, which would include temporary construction staging, laydown area, and worker parking. Although construction staging would be unsightly, it would be temporary, phased over time, and screened to an extent with construction fencing. While this would temporarily change the visual character and quality of the site, construction activities and equipment are common features in the area and would not result in permanent visual degradation or conflict with applicable UC and UCR regulations or the City's General Plan policies or zoning regulations governing scenic quality. Therefore, impacts would be **less than significant** during construction.

Operation

The existing visual quality of the UCR East Campus is generally high, due to consistent architectural elements, landscaping, contemporary architectural styles, and open spaces. The existing project site consists of an open recreational field, surface parking lot, two cell towers, a portion of the UCR Baseball Complex, and public rights-of-way on Blaine Street and Canyon Crest Drive. Development of the proposed project would change views of the UCR Baseball Complex from that of an open recreational field and cell towers to a three-story, approximately 50-foot-tall STEM Education Center, accessory buildings, landscaping, and programmed areas as well as a relocated T-Mobile Cell Tower. Surrounding uses on- and off-campus also include multi-story buildings.

Pursuant to Riverside Municipal Code Section 19.100.040, R-3-1500 zoning permits three-story buildings with a maximum height of 40 feet. Proposed project development within the parcel zoned as R-3-1500 (Assessor's Parcel Number 250-220-003) would consist of landscaping and a plaza for

the STEM Education Center, which would be low in height profile and would not conflict with the R-3-1500 height requirement. The setback, open space, and building appearance requirements for the R-3-1500 zone would not be applicable to the proposed project because no buildings would be located on this parcel. Proposed project development within the parcel would comply with the R-3-1500 zone requirements for landscaping and lighting because landscaping would be provided and continuously maintained in accordance with standard RUSD operations and lighting would be required to comply with the standards outlined in Riverside Municipal Code Section 19.100.070.

The building portion of the STEM Education Center would be located on the parcel zoned as Public Facilities (Assessor's Parcel Number 250-220-008). The STEM Education Center would be three stories and approximately 50 feet tall, which would not conflict with the maximum height of 60 feet or four stories (whichever is less) for building on parcels zoned Public Facilities (Riverside Municipal Code Section 19.140.030). In addition, the proposed building would be set back a minimum of 20 feet from all properties lines as well as a minimum of 26 feet from the southern property line, which would be compliant of with the requirements of Riverside Municipal Code Section 19.140.030. In addition, landscaping would be provided and continuously maintained in accordance with standard RUSD operations and would be required to comply with the landscaping and lighting standards outlined Riverside Municipal Code Section 19.140.030.

As described in Section 2, *Project Description*, the proposed building design would reflect the existing contemporary architectural style of UCR East Campus, with modern, rectilinear building lines and a variety of building and accent materials including expansive glass windows, wood, stone, and metal to create visual interest. Materials would be high quality and selected based on durability, ease of maintenance, and aesthetics. The height, massing, site design, materials, and other aspects of the visual character of the proposed project would be consistent with and complementary to the existing surrounding structures and uses and would not degrade the existing visual quality of the project site and surrounding area.

The location of the proposed STEM Education Center would be further enhanced by the proposed landscaping and hardscaping design. The proposed project includes approximately 40- and 65-foot setbacks from Blaine Street and Canyon Crest Drive, respectively, with ample trees, landscaping, and open space areas to soften the building edges and integrate with and enhance the existing park-like landscape along these streetscapes. Likewise, the parking and drop-off areas to the south of the building would be screened by trees and landscaping. Landscaping would include drought-tolerant shrubs, succulents, and trees that provide textured foliage, shade, and seasonal color. Hardscape materials would be high-quality and would include areas of accent and enhancement to delineate the entry plaza, main walkway, and gardens. As such, the proposed project would not conflict with Policy OS-1.6 of the City's General Plan Open Space and Conservation Element, which requires integrating new development through visual connections (City of Riverside 2012).

The proposed project would be constructed on an infill site in an urbanized area and thus would not adversely impact the contribution of open space areas and linkages to the City's visual character or affect buffers between urban and rural uses, consistent with Objectives OS-1 and OS-4 of the City's General Plan Open Space and Conservation Element (City of Riverside 2012). As discussed under Impact AES-1, the proposed project also would not result in substantial adverse effects to partial public views of scenic vistas of the Box Springs Mountains that are available in the project site vicinity. Accordingly, the proposed project would not conflict with Policies OS-2.2 and OS-2.4 of the City's General Plan Open Space and Conservation Element or Objective LU-3 of the City's General Plan Land Use and Urban Design Element, which require preserving ridgelines and hillsides as significant visual resources and visual assets (City of Riverside 2012 and 2019). Furthermore, the

project site is relatively flat, and the proposed project would not require excessive modification of natural landforms, consistent with Policy OS-2.3 of the City's General Plan Open Space and Conservation Element (City of Riverside 2012).

In addition, the proposed project would relocate the existing T-Mobile cell tower to the recreational fields within the UCR Baseball complex adjacent to the western boundary of the location of the proposed STEM Education Center. The removal of the Sprint cell tower, which is occurring independent and in advance of the proposed project, will improve views from adjacent roadways, and the relocation of the second cell tower to the adjacent recreational fields would not represent a new visual feature in the landscape. As such, the project would not conflict with the Objective LU-29 of the City's General Plan Land Use and Urban Design Element, which requires the minimization of the visual impact of aerial facilities, such as aboveground telecommunication facilities, on the City's landscape (City of Riverside 2019). The proposed project would also be subject to the design review and approval processes described in Section 4.1.3, *Regulatory Framework*, which includes the UC and UCR design review processes. The design review process would ensure the proposed project is consistent with the applicable UC and UCR regulations governing scenic quality, including the 2021 LRDP, the UCR *Physical Design Framework*, and the *Campus Construction and Design Standards*. Therefore, the proposed project would not conflict with applicable UC and UCR regulations or the City General Plan objectives or zoning regulations governing scenic quality, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold d: Would the proposed project create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?
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Impact AES-4 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD POTENTIALLY CREATE A NEW SOURCE OF SUBSTANTIAL LIGHT OR GLARE THAT WOULD ADVERSELY AFFECT DAYTIME OR NIGHTTIME VIEWS IN THE AREA. THEREFORE, IMPLEMENTATION OF MITIGATION MEASURES MM AES-1 AND MM AES-2 WOULD BE REQUIRED TO REDUCE IMPACTS TO LESS THAN SIGNIFICANT.

Construction

Temporary and intermittent glare during construction would be generated by sunlight reflecting from equipment or vehicle windshields or material staging areas; however, the amount of glare from such equipment would not be substantial given the limited number of construction equipment on-site at any one time. Furthermore, the presence of construction equipment would be temporary, and the construction area would be fenced from public view, likely with an opaque screen mesh. Therefore, glare impacts from construction would be **less than significant**.

Construction during early morning and late afternoon hours in the fall, winter, and early spring may require limited construction lighting. In addition, temporary nighttime security lighting may be required during construction. However, the use of construction lighting would be minimal and temporary in nature and would be focused on the work area within the project site. Therefore, light impacts during construction would be **less than significant**.

Operation

Sensitive light and glare receptors near the project site include off-campus residences to the north/northwest of the project site. The UCR campus is currently characterized by a moderate to high level of nighttime illumination, depending on location, that allows for safe and secure nighttime operation of campus facilities, events, and on-campus residential life.

Current sources of light and glare on the project site include recreational elevated light fixtures, roadway streetlights, headlights and taillights from vehicles traveling on Blaine Street and Canyon Crest Drive, vehicles entering and exiting the surface parking lot, and security lighting in the parking lot. Implementation of the proposed project would introduce new light sources at the project site that would include building safety lighting, additional parking lot lights, street/pathway lighting, architectural lighting, lights that may emanate from windows at night, and cars entering and exiting the parking lot at night. These new sources of exterior and interior light could impact the visibility of the night sky if they were bright enough or directed upward such that they increase the light levels in the area substantially. Although new lighting associated with the proposed project would contribute to the overall ambient glow of the UCR campus and immediate surrounding areas, the UCR main campus and surrounding development within the City generate levels of light typical for a highly urbanized setting with substantial sources of existing ambient lighting. Due to the urban setting of the UCR campus as well as the surrounding area, it is difficult to view the night sky under existing conditions. New sources of exterior lighting would also be subject to the development guidelines and standards of CALGreen, in compliance with the *Physical Design Framework or Campus Construction and Design Standards* that specify fundamental development standards including:

- Sufficient lighting for safety
- Full cutoff and shielding, as necessary, for all new and replacement pathway, street, and parking facilities light fixtures
- Lighting that should be visually compatible to developments, and as appropriate, highlight key features such as special building or landscape elements
- Specialty lighting that meets the programmatic and functional requirements of the development
- Typical campus exterior light temperatures of:
 - Street and parking lot lighting: 5,000 Kelvin (K)
 - Walkway lighting: 4,000K
 - Special area and accent lighting: 3,000K

As required by the UCR 2021 LRDP, *Physical Design Framework*, and *Campus Construction and Design Standards*, exterior lighting would be appropriately oriented and shielded to prevent light spillover at nearby sensitive receptors and minimize ambient glow. The design and installation of all lighting and lighting control systems shall comply with Title 24, Part 6 California Energy Code Guidelines. As part of the proposed project, lighting control devices, including occupancy sensors and switches, would be provided consistent with respective space requirements, such as, and not limited to, restrooms, offices, classrooms, and stairwells as well as dimming control systems. The proposed landscaping would also reduce the amount of light that would spill into public places from uncovered windows and exterior fixtures. Furthermore, existing uses on the project site contribute to existing nighttime illumination and glare associated with the UCR campus as a result of the recreational field lighting serving the two baseball diamonds. The proposed project would eliminate this source of outdoor lighting. Nevertheless, because of the proximity of sensitive land uses to the

project site, operational impacts related to light would be potentially significant. However, implementation of Mitigation Measures **MM AES-1** and **MM AES-2** would reduce potential impacts to **less than significant with mitigation incorporated** by requiring the inclusion of lighting minimization measures into project design. Once operational, glare could be produced by the sun shining on the glass and metal exteriors of the proposed building façades, other light-colored surfaces, and windshields of parked vehicles. In addition, increased vehicular traffic could increase glare effects along Canyon Crest Drive and Blaine Street as vehicles enter and exit the proposed parking lot and bus lane. To reduce the potential for substantial glare on the site, the proposed project would be developed in accordance with the UCR *Physical Design Framework*, which requires the use of building materials and color palettes that are contextually sensitive. For example, new pedestrian walkways associated with the project would use the “UCR tan” color mixture to reduce surface glare. The proposed building would also be constructed with low reflectivity glass, and landscaping within the building and parking lot setbacks would provide an additional buffer to reduce glare that could affect motorists on Canyon Crest Drive and Blaine Street. In addition, the project site is in an urban area where sunlight reflecting on vehicle windshields is a common occurrence; therefore, glare generated from additional vehicles entering and exiting the site would be intermittent and similar to existing conditions on campus. Nevertheless, because of the proximity of sensitive land uses to the project site, operational impacts related to glare would be potentially significant. However, implementation of Mitigation Measures **MM AES-1** and **MM AES-2** would reduce potential impacts to **less than significant with mitigation incorporated** by requiring the inclusion of glare minimization measures into project design.

Mitigation Measures

The following mitigation measures would be required to address potential impacts associated with light and glare.

MM AES-1 Minimization of Light and Glare

Site-specific consideration of the orientation of the building, use of landscaping materials, lighting design, and choice of primary façade materials shall be incorporated to minimize potential offsite spillover of lighting and glare from new development. Specifically, prior to project approval, UCR shall require the incorporation of site- and project-specific design considerations (to be included in the lighting plans) to minimize light and glare, including, but not limited to, the following:

- New outdoor lighting adjacent to on-campus residences and adjacent off-campus sensitive uses shall utilize directional lighting methods with full cutoff type light fixtures (and shielding as applicable) to minimize glare and light spillover.
- All elevated light fixtures such as in parking lots shall be shielded to reduce glare.
- Landscaped buffers shall be provided where on-campus student housing and off-campus residential neighborhoods might experience noise or light from UCR activities.
- All lighting shall be consistent with the Illuminating Engineering Society of North America Lighting Handbook.
- The UCR Planning, Design, & Construction and Transportation and Parking Services staff shall review all exterior lighting design for conformance with the Campus Design and Construction Standards.

Verification of inclusion in project design shall be provided at the time of design review and lighting plans shall be reviewed and approved prior to project-specific design and construction document approval.

MM AES-2 Minimization of Vehicle Lighting

Ingress and egress from new parking areas shall be designed and situated to direct vehicular headlights away from adjacent residential uses, as necessary. Walls, landscaping, or other light barriers and shielding shall be provided where appropriate. Site plans shall be reviewed and approved as part of project-specific design and construction document approval.

Significance After Mitigation

Implementation of Mitigation Measures **MM AES-1 and MM AES-2** would reduce potential impacts associated with light and glare to a less than significant level by requiring project design to minimize the generation of light and glare during operational activities.

4.1.5 Cumulative Impacts

The cumulative context for aesthetic impacts for the proposed project includes the existing and planned land uses on and around the UCR campus, including adjacent neighborhoods in the City. Development of past and current projects and future projects continue to alter the visual environment of Riverside and the surrounding area. The projects listed in Table 4-1, in Section 4, *Environmental Impact Analysis*, represent development and redevelopment that will physically change the visual environmental setting on the UCR campus, creating cumulative on-campus impacts. Further described in Section 4 are several regional plans that would also contribute to cumulative aesthetic impacts to Riverside in combination with development facilitated by the proposed project.

Pursuant to CEQA Guidelines Section 15130(a)(1), an EIR should not discuss cumulative impacts which do not result in part from the proposed project. As described under Impact AES-2, the proposed project would result in no impacts to State Scenic Highways. Therefore, the project would result in **no cumulative** impacts to State Scenic Highways when combined with other projects.

Cumulative development would be constructed in compliance with regulations within the City's General Plan, the City's Municipal Code, and the City's Citywide Design and Sign Guidelines, which pertain to community character, design, and aesthetics. Existing regulations provide a framework for future development to enhance community cohesion and visual identity and ensure design compatibility. Cumulative development that would occur on UCR's campus would undergo design review to ensure consistency with UC and UCR regulations governing scenic quality, including the 2021 LRDP, the UCR *Physical Design Framework*, and the *Campus and Construction Design Standards*. These existing regulations and design review processes would guide the design of cumulative development and ensure cumulative development would not have substantial adverse impacts on scenic vistas or conflict with applicable zoning and other regulations governing scenic quality. Therefore, cumulative impacts concerning scenic vistas and conflicts with zoning or other regulations governing scenic quality would be **less than significant**. Cumulative effects of lighting are visible over a wide area, and collective lighting from denser development can create skyglow, which would be a significant cumulative impact. The UCR campus and surrounding areas are in an urban setting with lighting from streetlights, illumination for paths, buildings, and other facilities and structures. As described under Impact AES-4, implementation of the proposed project would

introduce new lighting sources such as interior building lighting and exterior pedestrian, architectural, and parking lot lighting. However, campus lighting design guidelines, lighting regulations under the California Building Standards Code, and implementation of Mitigation Measures **MM AES-1** and **MM AES-2** would limit project-specific light trespass and glare effects on areas adjacent to UCR. Therefore, with incorporation of mitigation, the project's contribution to cumulative light and glare impacts would **not be cumulatively considerable (less than significant with mitigation)**.

4.1.6 References

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4.2 Agriculture and Forestry Resources

4.2.1 Introduction

This section describes the level and type of existing agriculture and forestry resources, including an identification of any Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, at and around the project site and addresses the potential for implementation of the proposed project to result in the conversion of agriculture and forest lands to other uses.

4.2.2 Existing Conditions

Regional Setting

Riverside County's (County) economy was largely centered around the citrus industry in the late 19th century, and large areas of the County remained dominated by citrus groves even through the mid-1950s. Since the late 20th century, farmland in the County has slowly been converted to non-agricultural uses as suburban development boomed in the City of Riverside (City). The only significant block of agriculture remaining within City limits is the Arlington Heights Greenbelt in the southern and central portion of the City, although many citrus groves are currently being converted to other uses even in this area. More farmland conversion occurs in the western portion of the County, where the City is located, than in other areas of the County (City of Riverside 2012).

Campus and Project Site Setting

The UCR campus contains 21 different agricultural fields and several agricultural facilities such as greenhouses, screen and lath house spaces, and services for research projects. UCR's West Campus contains a variety of plant species for agricultural research, including different types of citrus, avocado, European olive, and corn (Psomas 2019). UCR also manages the 540-acre Coachella Valley Agricultural Research Station located 90 miles southeast of campus, which was adopted as a mitigation measure in the 1990 Long Range Development Plan (LRDP) EIR to mitigate the loss of agricultural teaching and research land at UCR due to past campus development (UCR 2021a).

The UCR campus contains land categorized as Prime Farmland, Farmland of Statewide Importance, Unique Farmland (collectively referred to herein as "Farmland") as well as Farmland of Local Importance (as described further in Section 4.2.3, *Regulatory Framework*). Most of the identified Farmland is on West Campus, with a relatively small area of Farmland located on East Campus near the United States Department of Agriculture (USDA) Salinity Laboratory north of the UCR Botanic Gardens (California Department of Conservation [DOC] 2016).

The USDA Salinity Laboratory and surrounding land is categorized as Farmland of Statewide Importance (10.7 acres) and Unique Farmland (1.5 acres). The underlying land use designation for this area in the 2021 LRDP is Academics & Research. Academics & Research facilities may include classrooms; instructional and research laboratories and greenhouses; undergraduate, graduate, and professional schools and associated programs; libraries; advanced scientific research facilities; federal research partnerships; performance and cultural facilities; clinical facilities; and ancillary support facilities, such as general administrative offices, conference rooms, and meeting spaces. The USDA Salinity Laboratory operates under a 50-year lease agreement with UCR that expires in March 2038, past the life of the 2021 LRDP 2035 horizon. Thus, no conversion of this area to non-agricultural use is anticipated during the life of the 2021 LRDP (UCR 2021a).

The remaining acreage on East Campus is considered urban and built-up land or other land, as defined in Section 4.2.3, *Regulatory Framework*. Existing farmland categories on the UCR campus are described in Table 4.2-1 and shown in Figure 4.2-1.

Table 4.2-1 Existing Farmland at UCR

FMMP Category	East Campus (Acres)	West Campus (Acres)
Prime Farmland	0	265.9
Farmland of Statewide Importance	10.7	85.6
Farmland of Local Importance	0	17.3
Unique Farmland	1.5	24.4
Urban and Built-Up Land	431.8	63.0
Other Land	159.6	47.6
Total Acreage (Rounded)	604	504

FMMP = Farmland Mapping and Monitoring Program

Source: UCR 2021a

The project site is located within UCR’s East Campus generally on the southwest corner of the Blaine Street and Canyon Crest Drive intersection, adjacent to the UCR Baseball Complex with the proposed utilities improvement alignment within public rights-of-way of Canyon Crest Drive and Blaine Street. The project site is currently developed with an open recreational field with two baseball diamonds, surface parking, two cell towers, a portion of the UCR Baseball Complex, and the public rights-of-way of Blaine Street and Canyon Crest Drive. The project site is identified as Urban and Built-Up Land (DOC 2016; see Figure 4.2-1) and does not contain any Farmland or forestry resources.

4.2.3 Regulatory Framework

Federal

There are no federal regulations regarding the protection of agriculture and forestry resources that would be applicable to the proposed project.

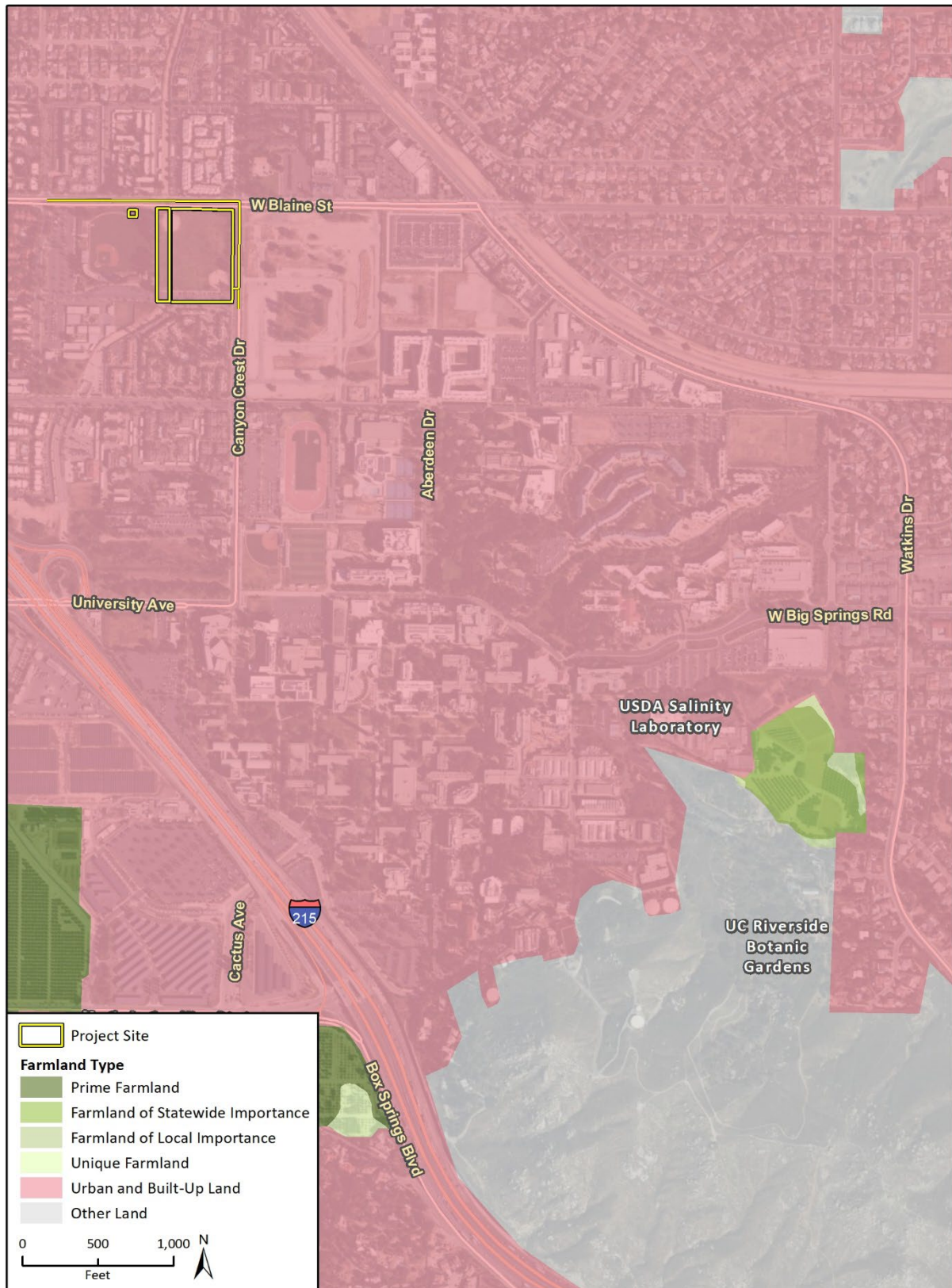
State

California Department of Conservation Farmland Mapping and Monitoring Program

The California DOC Farmland Mapping and Monitoring Program (FMMP) identifies several categories of “Important Farmland.” Authority for the FMMP comes from Government Code Section 65570(b) and Public Resources Code (PRC) Section 612. Government Code Section 65570(b) requires the DOC to collect or acquire information on the amount of land converted to or from agricultural use for every mapped county and to report this information to the California legislature. PRC Section 612 requires the DOC to prepare, update, and maintain Important Farmland Series Maps and other soils and land capability information.

DOC FMMP Important Farmland classifications are based on a combination of physical and chemical characteristics of the soil and climate that determine the degree of suitability of the land for crop production.

Figure 4.2-1 Farmland Designations in Project Site Vicinity



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Additional data provided by FMMP, 2018.

Fig 4.2-1 Project Site Vicinity Farmland Designations

The broad definitions of these categories from the FMMP are provided below:

- **Prime Farmland** is irrigated land with the best combination of physical and chemical features able to sustain long term production of agricultural crops. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. Land must have been used for production of irrigated crops at some time during the four years prior to the mapping date.
- **Farmland of Statewide Importance** is irrigated land similar to Prime Farmland that has a good combination of physical and chemical characteristics for the production of agricultural crops. This land has minor shortcomings, such as greater slopes or less ability to store soil moisture than Prime Farmland. Land must have been used for production of irrigated crops at some time during the four years prior to the mapping date.
- **Farmland of Local Importance** is land of importance to the local economy, as defined by each county's local advisory committee and adopted by its board of supervisors. Farmland of Local Importance is either currently producing or has the capability of production but does not meet the criteria of Prime, Statewide or Unique Farmland.
- **Unique Farmland** is land of lesser quality soils that is usually irrigated but may include non-irrigated orchards or vineyards, as found in some climatic zones in California. Land must have been cropped at some time during the four years prior to the mapping date.
- **Urban and Built-Up Land** is occupied by structures with a building density of at least one unit for every 1.5 acres, or approximately six structures to a 10-acre parcel. Common land uses include residential, industrial, and commercial buildings; institutional facilities; cemeteries; airports; golf courses; sanitary landfills; sewage treatment; and water control structures.
- **Other Land** is land not included in any other mapping category. Common examples include low-density rural developments; brush, timber, wetland, and riparian areas not suitable for livestock grazing; confined livestock, poultry, or aquaculture facilities; strip mines; borrow pits; and water bodies smaller than 40 acres. Vacant and non-agricultural land surrounded by urban development and greater than 40 acres is mapped as Other Land (DOC 2019).

Williamson Act

The California Land Conservation Act, also known as the Williamson Act, was adopted in 1965. This voluntary program allows property owners to have their property assessed on the basis of its agricultural production rather than at the current market value. The property owner is thus relieved of having to pay higher property taxes, as long as the land remains in agricultural production. The purpose of the act is to encourage property owners to continue to farm their land and to prevent the premature conversion of farmland to urban uses. Participation requires that the area consist of 100 contiguous acres of agricultural land under one or more ownerships.

Upon approval of an application by the local decision-making body, the agricultural preserve is established, and the land within the preserve is restricted to agricultural and compatible uses for 10 years. The Williamson Act contracts are automatically renewed annually for an additional one-year period unless the property owner applies for non-renewal or early cancellation. The Williamson Act also contains limited provisions for cancellation of contracts. In this case, specific findings regarding the non-viability of the agricultural use must be made, and a substantial penalty for the cancellation is assessed.

University of California, Riverside

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The UCR 2021 LRDP reserves the majority of West Campus for land-based research (i.e., agricultural field research, instruction and research laboratories, greenhouses, and research support services) and aims to increase the density and intensity of future development on East Campus. The 2021 LRDP does not contain specific objectives or policies related to agriculture and forestry resources.

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

City of Riverside General Plan

OPEN SPACE AND CONSERVATION ELEMENT

The Open Space and Conservation Element contains objectives and policies applicable to the proposed project to preserve designated agricultural lands (Objective OS-3) and protect valuable agricultural land from urban development (Policy OS-3.3) (City of Riverside 2012).

4.2.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Agriculture and Forestry Resources to assess the proposed project.

Would the proposed project:

- a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?
- b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?
- c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in PRC Section 12220(g)), timberland (as defined by PRC Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?
- d. Result in the loss of forest land or conversion of forest land to non-forest use?
- e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

Methodology

To evaluate the potential impacts of the proposed project on agriculture and forestry resources, the type and degree of agriculture and forestry resources that would be lost or converted were analyzed in relation to FMMP designations, Williamson Act contract restrictions, and land use designations of the project site and any policies and programs in the 2021 LRDP related to the preservation of agricultural resources.

Project Impacts and Mitigation Measures

Threshold a:	Would the proposed project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?
Threshold b:	Would the proposed project conflict with existing zoning for agricultural use or a Williamson Act contract?
Threshold c:	Would the proposed project conflict with existing zoning for, or cause rezoning of, forest land (as defined in PRC Section 12220(g)); timberland (as defined by PRC Section 4526); or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?
Threshold d:	Would the proposed project result in the loss of forest land or conversion of forest land to non-forest use?
Threshold e:	Would the proposed project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

The following discussion addresses potential proposed project impacts related to thresholds (a) through (e).

Impact AG-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN THE CONVERSION OF FARMLAND TO NON-AGRICULTURAL USE; WOULD NOT CONFLICT WITH EXISTING ZONING FOR AGRICULTURAL USE OR A WILLIAMSON ACT CONTRACT; AND WOULD NOT IMPACT OR RESULT IN THE LOSS OF FOREST LAND OR TIMBERLAND BECAUSE NONE EXIST ON THE PROJECT SITE. THEREFORE, THE PROPOSED PROJECT WOULD HAVE NO IMPACT ON AGRICULTURE AND FORESTRY RESOURCES, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

There are no agricultural or farm uses on or in the vicinity of the project site. The location of the proposed STEM Education Center has 2021 LRDP land use designations of Canyon Crest Gateway and Recreation & Athletics and does not contain any agricultural, forest, or timberland uses (UCR 2021b). The project site is also zoned for Public Facilities and Multi-Family Residential (R-3-1500), as depicted in the City's Zoning Map (City of Riverside 2007). The Public Facilities designation is intended for office and public uses of property and related activities, including civic center, public schools, public buildings, parks and recreation facilities, and waterworks and drainage facilities (City of Riverside 2016). The R-3-1500 zone provides areas for multiple family residences.¹ The remaining

¹ Pursuant to Government Code Section 53094, Riverside Unified School District public schools may exempt school facilities from the City's land use regulation and are required to comply with the California Department of Education requirements for public schools. The School Facilities Planning Division (SFPD) Form 4.01 provides a list of requirements for public schools in which Item Number G6GG – Planning Commission Report, would require local jurisdiction review.

portion of the project site is within the public rights-of-way of Blaine Street and Canyon Crest Drive, which do not have zoning designations. As a result, no portion of the project site is zoned for agricultural use, forest, or timberland.

According to the DOC FMMP, the project site contains lands categorized as Urban and Built-Up Land and thus does not contain any mapped Farmland (DOC 2016; Figure 4.2-1). In addition, the project site is not under a Williamson Act contract. Therefore, implementation of the proposed project would not result in the conversion of Farmland to non-agricultural use; would not conflict with existing zoning for agricultural use or a Williamson Act contract; and would not impact or result in the loss of forest land or timberlands, as none exist on the project site. Consequently, the project would have **no impact** on agriculture and forestry resources.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

No impacts would occur without mitigation.

4.2.5 Cumulative Impacts

The cumulative setting for agriculture and forestry resources includes the geographic area of Riverside County and San Bernardino County. These two counties were selected because agriculture continues to be a regional resource common to both counties.

Pursuant to CEQA Guidelines Section 15130(a)(1), an EIR should not discuss cumulative impacts which do not result in part from the proposed project. As described under Impact AG-1, the proposed project would result in no impacts to agriculture and forestry resources and would therefore have **no cumulative impacts** to agriculture and forestry resources.

4.2.6 References

- California Department of Conservation (DOC). 2016. "California Important Farmland Finder." <https://maps.conservation.ca.gov/DLRP/CIFF/> (accessed March 2022).
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4.3 Air Quality

4.3.1 Introduction

This section describes existing air quality conditions at and around the project site and addresses the potential for implementation of the proposed project to result in impacts to air quality, including conflicts with applicable air quality plans, exceedance of air quality standards from criteria pollutant emissions, exposure of sensitive receptors to substantial pollutant concentrations, and other emissions such as odors. The analysis in this section is based in part on modeling completed using the California Emissions Estimator Model (CalEEMod); modeling outputs are included in Appendix C of this document.

4.3.2 Existing Conditions

Regional Setting

Local Climate and Meteorology

The project site is located in the South Coast Air Basin (SCAB), which is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, in addition to the San Geronio Pass area in Riverside County. The regional climate in the SCAB is semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. Air quality in the SCAB is primarily influenced by meteorology and a wide range of emissions sources, such as dense population centers, substantial vehicular traffic, and industry.

Regional Air Pollutant Emissions Sources

Air pollutant emissions in the SCAB are generated primarily by stationary and mobile sources. Stationary sources can be divided into two major subcategories: point and area sources. Point sources occur at a specific location and are often identified by an exhaust vent or stack. Examples include boilers or combustion equipment that produce electricity or generate heat. Area sources are widely distributed and include sources such as residential and commercial water heaters, painting operations, lawn mowers, agricultural fields, landfills, and some consumer products. Mobile sources refer to emissions from motor vehicles, including tailpipe and evaporative emissions, and are classified as either on-road or off-road. On-road sources may be legally operated on roadways and highways. Off-road sources include aircraft, ships, trains, and self-propelled construction equipment. Air pollutants can also be generated by the natural environment, such as when high winds suspend fine dust particles.

Air Quality Pollutants of Primary Concern

The federal and California Clean Air Acts mandate the control and reduction of certain air pollutants. Under these laws, the United States Environmental Protection Agency (USEPA) and California Air Resources Board (CARB) have established ambient air quality standards for certain criteria pollutants (discussed further in Section 4.3.3, *Regulatory Framework*). Ambient air pollutant concentrations are affected by the rates and distributions of corresponding air pollutant emissions, and by the climate and topographic influences discussed above. Proximity to major sources is the

primary determinant of concentrations of non-reactive pollutants, such as carbon monoxide and suspended particulate matter. Ambient carbon monoxide levels usually follow the spatial and temporal distributions of vehicular traffic. A discussion of each primary criteria pollutant as well as toxic air contaminants (TACs) is provided below.

OZONE

Ozone is produced by a photochemical reaction (triggered by sunlight) between nitrogen oxides (NO_x) and volatile organic compounds (VOC).¹ VOCs are composed of non-methane hydrocarbons (with some specific exclusions), and NO_x are composed of different chemical combinations of nitrogen and oxygen, mainly nitric oxide and nitrogen dioxide. NO_x are formed during the combustion of fuels, while VOC are formed during combustion and evaporation of organic solvents. As a highly reactive molecule, ozone readily combines with many different components of the atmosphere. Consequently, high levels of ozone tend to exist only while high VOC and NO_x levels are present to sustain the ozone formation process. Once the precursors have been depleted, ozone levels rapidly decline. Because these reactions occur on a regional rather than local scale, ozone is considered a regional pollutant. In addition, because ozone requires sunlight to form, it mostly occurs in concentrations considered serious between the months of April and October. Ozone is a pungent, colorless, toxic gas with direct health effects on humans, including changes in breathing patterns, reduction of breathing capacity, increased susceptibility to infections, inflammation of lung tissue, and some immunological changes (South Coast Air Quality Management District [SCAQMD] 2005; USEPA 2022a). Groups most sensitive to ozone include children, the elderly, persons with respiratory disorders, and people who exercise strenuously outdoors.

CARBON MONOXIDE

Carbon monoxide is a localized pollutant that is found in high concentrations only near its source. The major source of carbon monoxide, a colorless, odorless, poisonous gas, is the incomplete combustion of petroleum fuels by automobile traffic. Therefore, elevated concentrations are usually only found near areas of high traffic volumes. Other sources of carbon monoxide include the incomplete combustion of petroleum fuels at power plants and fuel combustion from wood stoves and fireplaces during the winter. The health effects of carbon monoxide are related to its affinity for hemoglobin in the blood. Carbon monoxide causes a number of health problems, including aggravation of some heart diseases (e.g., angina), reduced tolerance for exercise, impaired mental function, and impaired fetal development. At high levels of exposure, carbon monoxide reduces the amount of oxygen in the blood, leading to mortality (SCAQMD 2005; USEPA 2022a). Carbon monoxide tends to dissipate rapidly into the atmosphere; consequently, violations of ambient air quality standards for carbon monoxide are generally associated with localized carbon monoxide “hotspots” that can occur at major roadway intersections during heavy peak-hour traffic conditions.

NITROGEN DIOXIDE

Nitrogen oxide and nitrogen dioxide (collectively, NO_x) are a by-product of fuel combustion; the primary sources are motor vehicles and industrial boilers and furnaces. The principal form of NO_x produced by combustion is nitric oxide, but nitric oxide reacts rapidly to form nitrogen dioxide, creating the mixture of nitric oxide and nitrogen dioxide commonly called NO_x . Nitrogen dioxide is

¹ CARB defines VOC and reactive organic gases similarly as, “any compound of carbon excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate,” with the exception that VOC are compounds that participate in atmospheric photochemical reactions. For the purposes of this analysis, reactive organic gases and VOC are considered comparable in terms of mass emissions, and the term VOC is used in this EIR.

an acute irritant that can aggravate respiratory illnesses and symptoms, particularly in sensitive groups (SCAQMD 1993 and 2005; USEPA 2022a). A relationship between NO_x and chronic pulmonary fibrosis may exist, and an increase in bronchitis in young children at concentrations below 0.3 parts per million may occur. NO_x absorbs blue light, gives a reddish-brown cast to the atmosphere, and reduces visibility (SCAQMD 1993 and 2005; USEPA 2022a). It can also contribute to the formation of small particulate matter measuring 10 microns or less in diameter (PM₁₀) and acid rain.

SUSPENDED PARTICULATE MATTER

Particulate matter measuring 10 microns or less in diameter is described as PM₁₀, while particulate matter measuring 2.5 microns or less in diameter is described as PM_{2.5}. Both PM₁₀ and PM_{2.5} are directly emitted into the atmosphere as by-products of fuel combustion and wind erosion of soil and unpaved roads. Particulate matter is also created in the atmosphere through chemical reactions. The characteristics, sources, and potential health effects associated with PM₁₀ and PM_{2.5} can be very different. PM₁₀ is generally associated with dust mobilized by wind and vehicles while PM_{2.5} is generally associated with combustion processes as well as formation in the atmosphere as a secondary pollutant through chemical reactions. PM_{2.5} is more likely to penetrate deeply into the lungs and poses a health threat to all groups, but particularly to the elderly, children, and those with respiratory problems (CARB 2022a). More than half of the small and fine particulate matter that is inhaled into the lungs remains there. These materials can damage health by interfering with the body's mechanisms for clearing the respiratory tract or by acting as carriers of an absorbed toxic substance. Suspended particulates can also reduce lung function, aggravate respiratory and cardiovascular diseases, increase mortality rates, and reduce lung function growth in children (SCAQMD 2005; USEPA 2022a).

LEAD

Lead is a metal found in the environment and in manufacturing products. The major sources of lead emissions historically have been mobile and industrial sources. As a result of the USEPA's regulatory efforts to remove lead from gasoline, atmospheric lead concentrations have declined substantially over the past several decades. The most dramatic reductions in lead emissions occurred prior to 1990 due to the removal of lead from gasoline sold for most highway vehicles. Lead emissions were further reduced substantially between 1990 and 2008, with reductions occurring in the metals industries at least in part as a result of national emissions standards for hazardous air pollutants (USEPA 2013). Because of the phasing out of leaded gasoline, metal processing is now the primary source of lead emissions. The highest level of lead in the air is found generally near lead smelters. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers.

TOXIC AIR CONTAMINANTS

The California Health and Safety Code defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being diesel particulate matter (DPM) from diesel-fueled engines. According to CARB, diesel engine emissions are believed to be responsible for about 70 percent of California's estimated known cancer risk attributable to TACs and they make up about 8 percent of outdoor PM_{2.5} (CARB 2022a).

Current Air Quality

The SCAQMD operates a network of air quality monitoring stations throughout the SCAB. The purpose of the monitoring stations is to measure ambient concentrations of pollutants and determine whether ambient air quality meets the California and federal standards. The monitoring station located closest to the project site is the Riverside-Rubidoux station, located at 5888 Mission Boulevard in Riverside, approximately 5.3 miles to the west. Table 4.3-1 indicates the number of days each of the air quality standards was exceeded at the Riverside-Rubidoux station between 2019 and 2021.

Table 4.3-1 Ambient Air Quality at the Riverside-Rubidoux Monitoring Station

Pollutant	2019	2020	2021
Ozone (ppm), Worst 1-Hour ¹	0.123	0.143	0.117
Number of days above CAAQS (>0.09 ppm)	24	46	20
Ozone (ppm), Worst 8-Hour Average ¹	0.096	0.115	0.097
Number of days above CAAQS (>0.070 ppm)	63	86	57
Number of days above NAAQS (>0.070 ppm)	59	82	55
Carbon Monoxide (ppm), Highest 8-Hour Average ²	1.2	1.5	1.8
Number of days above CAAQS or NAAQS (>9.0 ppm)	0	0	0
Nitrogen Dioxide (ppm), Worst 1-Hour ¹	0.056	0.066	0.052
Number of days above CAAQS (>0.180 ppm)	0	0	0
Number of days above NAAQS (>0.100 ppm)	0	0	0
Sulfur Dioxide (ppm), Worst Hour ²	0.002	0.002	0.002
Number of days above CAAQS (>0.25 ppm)	N/A	N/A	N/A
Number of days above NAAQS (>0.075 ppm)	0	0	0
Particulate Matter <10 microns (µg/m ³), Worst 24 Hours ¹	132.5	142.1	76.5
Number of days above CAAQS (>50 µg/m ³)	116	115	75
Number of days above NAAQS (>150 µg/m ³)	0	0	0
Particulate Matter <2.5 microns (µg/m ³), Worst 24 Hours ¹	55.7	59.9	82.1
Number of days above NAAQS (>35 µg/m ³)	5	12	11
Lead (µg/m ³), 3-Month Average ²	0.01	0.01	0.01
Number of days above NAAQS (>0.15 µg/m ³)	N/A	N/A	N/A

¹ Data from CARB at the nearest monitoring station with available data at the Riverside-Rubidoux station in Riverside.

² Data from the USEPA at the nearest monitoring station with available data at the Riverside-Rubidoux station in Riverside.

ppm = parts per million; µg/m³ = micrograms per cubic meter; CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; N/A = Not Available Information

Source: CARB 2022b and USEPA 2022b

Campus and Project Site Setting

Existing Air Pollutant Emissions Sources

Existing sources of air pollutant emissions at the project site include off-gassing of asphalt surfaces (e.g., roadways, parking lot), use of equipment for landscaping and maintenance activities, and vehicle trips by maintenance staff and users of the on-site recreational field and infrequent vehicle trips by maintenance staff for the cell towers. These existing air quality emissions are included in the regional air quality monitoring station data presented above in Table 4.3-1.

Sensitive Receptors

Ambient air quality standards have been established to represent the levels of air quality considered sufficient, with a margin of safety, to protect public health and welfare. They are designed to protect that segment of the public most susceptible to respiratory distress, such as children under 14, the elderly over 65, persons engaged in strenuous work or exercise, and people with cardiovascular and chronic respiratory diseases. The majority of sensitive receptor locations are, therefore, schools, hospitals, and residences. The sensitive receptors nearest the project site include the Falkirk UCR campus housing approximately 40 feet to the south of the proposed location of the STEM Education Center and approximately 40 feet west of the sewer line extension alignment, the UCR North District Development located approximately 40 feet east of the sewer line extension alignment, the Stonehaven multi-family residential complex approximately 50 feet to the north of the electrical feeder line upgrade alignment, and the REACH Leadership STEAM Academy approximately 150 feet to the southwest of the proposed location of the STEM Education Center. Other nearby sensitive receptors within 1,000 feet of the project site include campus housing, single-family and multi-family residences, and the Islamic Academy of Riverside.

4.3.3 Regulatory Framework

Federal

Clean Air Act

The USEPA is charged with implementing national air quality programs. USEPA's air quality mandates are drawn primarily from the federal Clean Air Act, passed in 1963 by the U.S. Congress and amended several times. The 1970 federal Clean Air Act amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress added several more provisions, including non-attainment requirements for areas not meeting National Ambient Air Quality Standards (NAAQS) and the Prevention of Significant Deterioration program. The 1990 federal Clean Air Act amendments represent the latest in a series of federal efforts to regulate air quality in the United States. The federal Clean Air Act allows states to adopt more stringent standards or to include additional pollution species.

National Ambient Air Quality Standards

The federal Clean Air Act requires USEPA to establish primary and secondary NAAQS for a number of criteria air pollutants. The air pollutants for which standards have been established are considered the most prevalent air pollutants known to be hazardous to human health. NAAQS have been established for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, PM₁₀, PM_{2.5}, and lead.

Primary standards are those levels of air quality deemed necessary, with an adequate margin of safety, to protect public health. Table 4.3-2 lists the current NAAQS for regulated pollutants.

Table 4.3-2 Federal and State Ambient Air Quality Standards

Pollutant	Averaging Time	Federal Primary Standards	California Standard
Ozone	1-Hour	–	0.09 ppm
	8-Hour	0.070 ppm	0.070 ppm
Carbon Monoxide	8-Hour	9.0 ppm	9.0 ppm
	1-Hour	35.0 ppm	20.0 ppm
Nitrogen Dioxide	Annual	0.053 ppm	0.030 ppm
	1-Hour	0.100 ppm	0.18 ppm
Sulfur Dioxide	Annual	–	–
	24-Hour	–	0.04 ppm
	1-Hour	0.075 ppm	0.25 ppm
PM ₁₀	Annual	–	20 µg/m ³
	24-Hour	150 µg/m ³	50 µg/m ³
PM _{2.5}	Annual	12 µg/m ³	12 µg/m ³
	24-Hour	35 µg/m ³	–
Lead	30-Day Average	–	1.5 µg/m ³
	3-Month Average	0.15 µg/m ³	–

ppm = parts per million

µg/m³ = micrograms per cubic meter

Source: CARB 2016

The SCAB is designated nonattainment for the eight-hour ozone NAAQS, the 24-hour PM_{2.5} NAAQS, and the annual PM_{2.5} NAAQS. The SCAB is in attainment of all other NAAQS.

State

California Clean Air Act

The California Clean Air Act, signed into law in 1988, requires all areas of the State to achieve and maintain the CAAQS by the earliest practical date. CARB is the designated State air pollution control agency and is responsible for coordination and oversight of State and local air pollution control programs in California as well as for implementing the requirements of the California Clean Air Act. CARB oversees local air district compliance with federal and California laws, approves local air quality plans, submits the State implementation plans to the USEPA, monitors air quality, determines and updates area designations and maps, and sets emissions standards for new mobile sources, consumer products, small utility engines, off-road vehicles, and fuels.

California Ambient Air Quality Standards

The California Clean Air Act requires CARB to establish the health-based California Ambient Air Quality Standards (CAAQS). Similar to the NAAQS, CAAQS have been established for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, PM₁₀, PM_{2.5}, and lead. In addition, California has established ambient air quality standards for vinyl chloride, hydrogen sulfide, sulfates, and visibility-

reducing particulates. In most cases, the CAAQS are more stringent than the NAAQS. The California Clean Air Act requires all local air districts to endeavor to achieve and maintain the CAAQS by the earliest practical date. The California Clean Air Act specifies that local air districts should focus attention on reducing the emissions from transportation and area-wide emission sources and provides districts with the authority to regulate indirect sources. Table 4.3-2, presented earlier, lists the current CAAQS for regulated pollutants. The SCAB is designated nonattainment for the one-hour and eight-hour ozone CAAQS, the PM₁₀ CAAQS, and the annual PM_{2.5} CAAQS. The SCAB is in attainment of all other CAAQS.

University of California, Riverside

UCR Campus Standards

The current *UCR Campus Standards* that specifically relate to air quality and sustainability and that are applicable to the proposed project include the following:

Section 1, subsection 1.30(A) - (C) – University of California (UC) Policy on Green Building Design.

- A. UCR by UC policy shall incorporate the principles of energy efficiency and sustainability in all capital projects within budgetary constraints and programmatic requirements. UCR's minimum requirement is to attain United States Green Building Council LEED "certified" rating and strives to achieve "Silver" certification whenever possible (base bid LEED certification level required for project is described in specification section 01 8113, Sustainable Design Requirements).
- B. Prerequisites requirements from the LEED program must be incorporated into each project, as applicable.

Section 3, subsection 1.10(A) - (B) – Sustainability.

- A. All University projects, including major renovations, shall attempt to meet and exceed the requirements of *Materials and Resources Credit 4 – Recycled Content* and *Credit 5 – Regional Materials* under the current LEED rating system for this material. Generally, the use of cement substitutes and additives in the concrete design that promote the use of recycled materials, such as fly ash and slag shall be considered. Concrete materials and products should be extracted, recovered, and manufactured within 500 miles of the University.
- B. Sustainable Materials, Products and Equipment.
 - 1. Specify materials, products and equipment with the following attributes where they meet the performance goals needed for the project:
 - a. Materials, products and equipment that have an inherent ability to serve their function with minimal maintenance.
 - b. Materials, products or equipment that can be removed and re-used when they are no longer needed for the project.
 - c. Materials, products or equipment that create no or minimal health risks to the people who occupy, construct and maintain the project.
 - d. Materials, products or equipment that have significant post-industrial and post-consumer recycled content.

- e. Local/regional materials and equipment manufactured or having final assembly at a facility within 500 miles of the Project.
- f. Certified wood from manufacturers declaring conformance with Forest Stewardship Council Guidelines for certified wood building components.

Section 6, subsection 1.11(E) – Adhesives. Type I, complying with SCAQMD Rule 1168.

Section 6, subsection 1.11(F) – Adhesive for Bonding Plastic Laminate. Type I, specific formulation as recommended by manufacturer for application.

1. Adhesives applied on-site shall comply with SCAQMD Rule 1168.

Section 7, subsection 1.9(A) – Detail all special conditions. All materials used shall be top-of-the-line available suited for the conditions being sealed and in compliance with the VOC requirements listed in the *Campus Standards*.

Section 23, subsection 1.1(E) – Campus Heating and Cooling Overview. Chlorofluorocarbon (CFC) and Hydrochlorofluorocarbon (HCFC) refrigerants shall not be used for any new heating, ventilation, and air conditioning (HVAC) equipment on campus. Any existing buildings being renovated and which contain CFC refrigerant shall have the refrigeration system changed to a newer non-CFC and HCFC refrigerant. UCR Environmental Health & Safety Ozone Depleting Substances (ODS)/Refrigerant Emissions Program facilitates compliance with the SCAQMD and the USEPA regulations, which apply to stratospheric ozone depleting substances, such as CFCs and HCFCs used in stationary and motor vehicle refrigeration and air conditioning systems.

Section 23, subsection 1.2(S)(3) – HVAC Design Criteria. Outside air brought into a building for ventilation and indoor air quality shall conform to the latest edition of ASHRAE Standard (ANSI/ASHRAE Std. 62.1) and/or California Energy Code for Ventilation for Acceptable Indoor Air Quality as stated in the *Campus Standards*.

Section 32, subsection 2.5(A) – Local/Regional Materials. Use materials or products extracted, harvested, or recovered, as well as manufactured, within a 500-mile radius from the project site, if available. Submit documentation indicating distance between manufacturing facility and the project site. Indicate distance of raw material origin from the project site.

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space and infrastructure on the UCR campus. The 2021 LRDP also includes objectives and policies relevant to air quality that are applicable to the proposed project, which are summarized in Table 4.3-3.

Table 4.3-3 UCR 2021 LRDP Objectives and Policies Related to Air Quality

Objective	Policy
Mobility	
Invest in infrastructure to increase bicycle use and support other active transportation modes to integrate desired routes with the campus' and City's circulation framework.	Support and facilitate City-led initiatives to extend bikeways to campus from every direction, including routes proposed along Canyon Crest Drive, Martin Luther King Boulevard, and the Gage Canal. Provide adequate support amenities to facilitate and encourage the use of bicycles and other alternative transportation modes.
Emphasize safe and pleasing passage for pedestrians and bicycle riders through the careful, continued development and integration of the campus.	Implement University policies to improve pedestrian safety and encourage social interaction in zones of high pedestrian activity.
Campus Utility Infrastructure – Electricity	
Support alternative measures (e.g., alternative fuels, energy sources, practices, carbon offsets, etc.) and mixed energy source portfolios in support of green sustainability practices.	Incorporate solar panels on the roofs of new construction to the maximum feasible extent. Incorporate solar panels as integral elements of new construction design and applicable green building certifications to the maximum feasible extent.
Campus Utilities Infrastructure – Potable Water, Wastewater and Irrigation	
Commit to a multi-prong approach to conserving potable water use.	Reduce potable water use in new facilities by exceeding applicable codes by a minimum of 20 percent.
Explore options to shift away from potable water use where feasible.	Design new building irrigation and efficient toilet flushing systems for use with future non-potable water sources.

Source: UCR 2021

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

Southern California Association of Governments

The Southern California Association of Governments (SCAG) is a regional planning agency that serves as a forum for regional issues relating to transportation, economics, community development, and environmental issues. SCAG is not an air quality management agency, but it is responsible for development of transportation, land use, and energy conservation measures that impact air quality. SCAG's 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (titled Connect SoCal) provides growth forecasts used by SCAQMD to develop air quality and land use strategies (SCAG 2020a). SCAG is charged with developing and implementing Senate Bill 375, a measure that addresses greenhouse gas reduction in the State, through Connect SoCal, with participation from Riverside County and the other cities and counties that make up SCAG.

South Coast Air Quality Management District Air Quality Management Plan

County-level Air Pollution Control Districts provide local management of air quality. CARB has established air quality standards and is responsible for the control of mobile emission sources, while the local Air Pollution Control Districts are responsible for enforcing standards and regulating stationary sources. The SCAQMD is the designated air quality control agency in the SCAB and is required to prepare a plan for air quality improvement for pollutants for which the region is in non-attainment.

SCAQMD recently adopted the 2022 Air Quality Management Plan (AQMP), which includes strategies to ensure the SCAQMD does its part to further the region's ability to meet the 2015 federal ozone standards (SCAQMD 2022). The 2022 AQMP builds on the measures already in place from the previous AQMPs and includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technology, best management practices, co-benefits from existing programs, incentives, and other CAA measures to meet the 8-hour ozone standard. As acknowledged in the 2022 AQMP, the most significant air quality challenge in the SCAB is to reduce NO_x emissions to meet the 2037 ozone standard deadline for the non-Coachella Valley portion of the SCAB because NO_x plays a critical role in the creation of ozone (SCAQMD 2022).

The SCAQMD's strategy to meet the NAAQS and CAAQS distributes the responsibility for emission reductions across federal, State, and local levels and industries. The majority of these emissions are from heavy-duty trucks, ships, and other State and federally regulated mobile source emissions that the majority of which are beyond SCAQMD's control. The SCAQMD has limited control over truck emissions with rules such as Rule 1196. In addition to federal action, the 2022 AQMP relies on substantial future development of advanced technologies to meet the standards, including the transition to zero- and low-emission technologies (SCAQMD 2022). The AQMP also incorporates the transportation strategy and transportation control measures from SCAG's 2020-2045 RTP/SCS (SCAG 2020a). SCAG is required by law to ensure that transportation activities "conform" to, and are supportive of, the goals of regional and State air quality plans to attain the NAAQS. Connect SoCal includes transportation programs, measures, and strategies generally designed to reduce vehicle miles traveled (VMT), which are contained in the AQMP.

SCAQMD Rules and Regulations

All projects are subject to SCAQMD rules and regulations in effect at the time of construction. Specific rules applicable to the proposed project would include those outlined in the following subsections.² Additional SCAQMD rules relevant to other resource areas are described in other sections of this Draft EIR.

RULE 53 – SPECIFIC AIR CONTAMINANTS (RIVERSIDE COUNTY)

For sulfur compounds, a person shall not discharge into the atmosphere from any single source within the following areas of Riverside County, sulfur compounds in any state or combination thereof, in excess of the following concentrations at the point of discharge: (1) In the west-central area, 0.05 percent by volume calculated as sulfur dioxide; (2) In all portions of Riverside County not within the west-central area, 0.15 percent by volume calculated as sulfur dioxide. For fluorine compounds, emissions shall be controlled to the maximum degree technically feasible in respect to

² Rule 53 can be found here: <http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/reg-iv-addendum.pdf?sfvrsn=6>; Rules 401, 402, and 403 can be found here: <http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-iv>; Rule 1113 can be found here: <http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xi>.

the process or operation causing such emission, but no emission shall be permissible which may cause injury to the property of others.

RULE 401 – VISIBLE EMISSIONS

A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour that is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or of such opacity as to obscure an observer's view to a degree equal to or greater than would be obscured by smoke as described in the rule.

RULE 402 – NUISANCE

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any such persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

RULE 403 – FUGITIVE DUST

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent, reduce, or mitigate fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and identifies measures to reduce fugitive dust. This includes soil treatment for exposed soil areas. Treatment shall include, but not necessarily be limited to, periodic watering; application of environmentally safe, non-toxic soil stabilization materials; and/or roll compaction as appropriate. As indicated in SCAQMD's guidance they are "increasing reliance on non-toxic chemical dust suppressants to stabilize soils" (SCAQMD 2014).

RULE 1113 – ARCHITECTURAL COATINGS

No person shall apply or solicit the application of any architectural coating (e.g., paint) within the SCAQMD with a VOC content in excess of the values specified in a table incorporated in the rule.

City of Riverside General Plan

RUSD would be required to comply with the following applicable policies of the City's General Plan as they relate to air quality because these policies are separate from the City's zoning ordinance.

AIR QUALITY ELEMENT

The City of Riverside's (City) General Plan Air Quality element includes objectives and policies that help reduce air quality impacts (City of Riverside 2007). These objectives and policies include general measures to reduce transportation-related air quality emissions and to consider sensitive receptors in placement of land uses. However, these objectives and policies focus on City-led initiatives, such as addressing municipal and communitywide emissions, consulting with CARB to reduce emissions, and encouraging certain types of land use or transit development. As such, none of the air quality objectives or policies in the Air Quality Element would be applicable to the proposed project.

4.3.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Air Quality to assess the proposed project.

Would the proposed project:

- a. Conflict with or obstruct implementation of the applicable air quality plan?
- b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or State ambient air quality standard?
- c. Expose sensitive receptors to substantial pollutant concentrations?
- d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Regional Significance Thresholds

The SCAQMD recommends quantitative regional significance thresholds for temporary construction activities and long-term project operation in the SCAB, shown in Table 4.3-4.

Table 4.3-4 SCAQMD Regional Significance Thresholds

Construction Thresholds	Operational Thresholds
75 pounds per day of VOC	55 pounds per day of VOC
100 pounds per day of NO _x	55 pounds per day of NO _x
550 pounds per day of CO	550 pounds per day of CO
150 pounds per day of SO _x	150 pounds per day of SO _x
150 pounds per day of PM ₁₀	150 pounds per day of PM ₁₀
55 pounds per day of PM _{2.5}	55 pounds per day of PM _{2.5}

VOC = volatile organic compounds; NO_x = nitrogen oxides; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = particulate matter measuring 10 microns or less in diameter; PM_{2.5} = particulate matter measuring 2.5 microns or less in diameter; SCAQMD = South Coast Air Quality Management District
 Source: SCAQMD 2019

Localized Significance Thresholds

In addition to the above regional thresholds, the SCAQMD has developed Localized Significance Thresholds (LSTs) in response to the Governing Board’s Environmental Justice Enhancement Initiative (1-4), which was prepared to update the *CEQA Air Quality Handbook* (1993). LSTs were devised in response to concern regarding exposure of individuals to criteria pollutants in local communities and have been developed for NO_x, carbon monoxide, PM₁₀, and PM_{2.5}. LSTs represent the maximum emissions from a project that will not cause or contribute to an air quality exceedance of the most stringent applicable federal or State ambient air quality standard at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area (SRA), distance to the sensitive receptor, and project size. LSTs have been developed for emissions within construction areas up to five acres in size. However, LSTs only apply to emissions in a fixed stationary location and are not applicable to mobile sources, such as cars on a roadway (SCAQMD

2008). As such, LSTs are typically applied only to construction emissions because the majority of operational emissions are associated with project-generated vehicle trips.

The project is located in SRA 23 (Metropolitan Riverside County). The SCAQMD provides LST lookup tables for project sites that measure one, two, or five acres. The project site is approximately seven acres; however, the area of active construction on any given day would be unlikely to exceed five acres in size. Therefore, the LST analysis conservatively uses five-acre LSTs. LSTs are provided for receptors at a distance of 82 feet to 1,640 feet from the project disturbance boundary to the sensitive receptors. The border of construction activity would be approximately 40 feet from the nearest off-site sensitive receptors (i.e., the Falkirk UCR campus housing approximately 40 feet to the south of the proposed location of the STEM Education Center and the Stonehaven multi-family residential complex approximately 40 feet to the north of the electrical feeder line upgrade alignment). According to the SCAQMD’s publication, *Final LST Methodology*, projects with boundaries located closer than 82 feet to the nearest receptor should use the LSTs for receptors located at 82 feet. Therefore, the analysis below uses the LST values for 82 feet (approximately 25 meters). LSTs for construction in SRA 23 on a five-acre site with a receptor 82 feet away are shown in Table 4.3-5.

Table 4.3-5 SCAQMD LSTs for Construction (SRA 23)

Pollutant	Allowable Emissions for a 5-acre Site in SRA 23 for a Receptor 82 Feet Away (lbs/day)
Gradual conversion of NO _x to NO ₂	270
Carbon Monoxide	1,577
PM ₁₀	13
PM _{2.5}	8

NO_x = nitrogen oxides; NO₂ = nitrogen dioxide; PM₁₀ = particulate matter measuring 10 microns or less in diameter; PM_{2.5} = particulate matter measuring 2.5 microns or less in diameter; SCAQMD = South Coast Air Quality Management District
 Source: SCAQMD 2009

Health Risk Thresholds

SCAQMD has developed significance thresholds for the emissions of TACs based on health risks associated with elevated exposure to such compounds. For carcinogenic compounds, cancer risk is assessed in terms of incremental excess cancer risk. A project would result in a potentially significant impact if it would generate a Maximum Incremental Cancer Risk of 10 in one million or a cancer burden of 0.5 excess cancer cases in areas exceeding one in one million risk. Additionally, non-carcinogenic health risks are assessed in terms of a Hazard Index. A project would result in a potentially significant impact if it would result in a chronic and acute Hazard Index greater than 1.0 (SCAQMD 2019).

Methodology

Criteria pollutant emissions for project construction and operation were calculated using CalEEMod, Version 2022.1.1.13. CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify estimated criteria pollutant and GHG emissions associated with construction and operation of a variety of land use projects. The model was developed by BREEZE Software for the California Air Pollution Control Officers Association (CAPCOA) in collaboration with

the California air districts. CalEEMod allows for the use of standardized data (e.g., emission factors, trip lengths, meteorology, source inventory) provided by the various California air districts to account for local requirements and conditions, and/or user-defined inputs. The model calculates both criteria pollutant emissions and greenhouse gas emissions (discussed further in Section 4.8, *Greenhouse Gas Emissions*). The calculation methodology and input data used in CalEEMod can be found in the CalEEMod User's Guide Appendices A, D, and E (CAPCOA 2022). The input data and subsequent construction and operation emission estimates for the project are detailed in the following discussion. CalEEMod output files for the project are included in Appendix C of the EIR.

Construction Emissions

The analysis assessed maximum daily emissions from individual construction activities, including demolition, site preparation, grading, building construction, paving, and architectural coating. Information provided by Riverside Unified School District regarding construction activity length and equipment lists for each construction phase were used for modeling (see Appendix C).

The proposed project would demolish the bleachers, lights, asphalt and other infrastructure at the existing on-site recreational field. Approximately 29,500 square feet of material would be exported during demolition. Grading would be balanced and would not require export or import of cut or fill material. In addition to construction activities occurring on-site, the proposed project also includes installation of a new cell tower at the T-Mobile Cell Tower Relocation Area, sub-grade electrical line installation along the electrical feeder line upgrade alignment, and sub-grade sewer line installation along the sewer line extension alignment. The proposed cell tower would be located approximately 100 feet to the west of the northwest corner of the project site. Sub-grade construction would include installation of an approximately 2,000-foot feeder line which would provide electricity to the proposed STEM Education Center and an approximately 175-foot extension of an existing eight-inch sewer line to the southeastern corner of the project site to provide sewer service to the proposed STEM Education Center.

The proposed uses were assigned the following land uses based on CalEEMod User Guide: High School facilities were assumed as "High School"; the re-located cell tower was assumed as "Other Non-Asphalt Surfaces" due to the proposed approximately 216-square-foot concrete pad; Accessory electrical infrastructure and the sewer line extension alignment was assumed as "Other Asphalt Surfaces" with an approximately 10-foot-wide alignment because these features would be covered with pavement upon completion. Parking and on-site non-asphalt surfaces such as landscaping were modeled as such. Additional land use assumptions are available in Appendix C of this EIR.

CalEEMod has the capability to calculate reductions in construction emissions from the effects of dust control, diesel-engine classifications, and other selected emissions reduction measures. Emissions calculations assume twice-daily application of water and a 15-mile-per-hour speed limit on unpaved surfaces during grading in compliance with SCAQMD Rule 403, Fugitive Dust, and use of architectural coatings with a VOC content of 50 grams per liter in compliance with SCAQMD Rule 1113.

Operational Emissions

In CalEEMod, operational sources of criteria pollutant emissions include area, energy, and mobile sources. These sources are described below. To provide a conservative estimate of project emissions, air pollutant emissions associated with existing on-site development (i.e., the open recreational field) were not modeled or accounted for in the air pollutant emissions estimates for the proposed project.

AREA SOURCES

Emissions associated with area sources, including consumer products, landscape maintenance, and architectural coatings, were calculated in CalEEMod and utilize standard emission rates from CARB, USEPA, and emission factor values provided by the local air district (CAPCOA 2022).

ENERGY SOURCES

Emissions from energy use that generate criteria pollutant emissions include natural gas use. The emissions factors for natural gas combustion are based on USEPA's AP-42 (*Compilation of Air Pollutant Emissions Factors*) and California Climate Action Registry General Reporting Protocol. Only GHG emissions are calculated from electricity usage because the energy is generated off-site and therefore may not be relevant for local and regional air quality conditions (see Section 4.8, *Greenhouse Gas Emissions*, of this EIR).

MOBILE SOURCES

Mobile source emissions are generated by the increase in vehicle miles traveled associated with operation of on-site development. Vehicle trip emissions attributable to the proposed project were calculated using project-specific transportation data provided by Fehr and Peers (Appendix H). The proposed project would generate approximately 2,064 daily trips and 15,164 daily VMT on school days. According to the National Center for Education Statistics, there are approximately 180 days in a school year in California (National Center for Education Statistics 2018). However, in order to account for potential summer programming, this analysis conservatively assumes 15,164 daily VMT would occur on 260 weekdays per year. Subsequently, the total weekday VMT used for modeling is 3,942,640. In addition, because weekend trip rates and VMT were not provided by the transportation impact analysis, CalEEMod default trip rates and trip lengths were used for Saturday and Sunday trips.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project conflict with or obstruct implementation of the applicable air quality plan?

Impact AQ-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CONFLICT WITH OR OBSTRUCT IMPLEMENTATION OF THE APPLICABLE AIR QUALITY PLAN. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The following analysis focuses on evaluating the consistency of the proposed project with the SCAQMD AQMP because, as discussed previously, none of the policies and objectives in the Air Quality Element of the City's General Plan are applicable to the proposed project.

A project may be inconsistent with the AQMP if it would generate population, housing, or employment growth exceeding forecasts used in the development of the AQMP. The 2022 AQMP, the most recent AQMP adopted by the SCAQMD, incorporates local city general plans and SCAG's 2020-2045 RTP/SCS socioeconomic forecast projections of regional population, housing, and employment growth.

In its 2020-2045 RTP/SCS, SCAG forecasts the City's population will increase to 395,800 persons by 2045 — an increase of 83,011 persons relative to the 2021 population of 312,789 (SCAG 2020b; California Department of Finance [DOF] 2022). As discussed in Section 2, *Project Description*, the

proposed project would accommodate the re-location of approximately 240 full-time high school students that currently attend the existing STEM facility at the former Hyatt Elementary School site in the City. In addition, approximately 800 students at the proposed STEM Education Center would be part-time students that would continue attending other local schools for the other half of the school day. The remaining full-time students would be sourced from RUSD's existing student population. Therefore, the proposed project would not induce new population growth in the SCAQMD region.

The employment growth forecasts for the City in SCAG's 2020-2045 RTP/SCS estimate that the total number of jobs would increase from 145,400 in 2016 to 188,700 in 2045, for an increase of 43,300 jobs (SCAG 2020b). Project operation would require approximately 60 employees, and these employees would likely be sourced from within the existing local and regional workforce. Therefore, employment resulting from the project would be within SCAG's projected 2045 employment increase of 43,300 jobs from 2016, and the project would not cause the City to exceed official regional employment projections.

The proposed project is consistent with SCAG's growth projections and land use policies, including the policies of focusing growth and development within urban areas, encouraging infill development, and re-using previously developed urban land because it involves re-development of existing recreational fields to accommodate a school facility on an infill, urban site.

The AQMP also provides strategies and measures to reach attainment with the thresholds for the ozone and PM_{2.5} NAAQS. As shown in Table 4.3-6 and Table 4.3-7 under Impact AQ-2, project construction and operation would generate criteria pollutant emissions below SCAQMD thresholds. Therefore, because the proposed project would not conflict with the demographic forecasts used in development of the AQMP, would be consistent with AQMP policies, and would not generate emissions in excess of SCAQMD thresholds, the proposed project would not conflict with or obstruct implementation of the 2022 AQMP. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard?

Impact AQ-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN A CUMULATIVELY CONSIDERABLE NET INCREASE OF ANY CRITERIA POLLUTANT FOR WHICH THE PROJECT REGION IS NON-ATTAINMENT UNDER AN APPLICABLE FEDERAL OR STATE AMBIENT AIR QUALITY STANDARD. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

In accordance with CEQA Guidelines Section 15064(h)(3), the SCAQMD's approach for assessing cumulative impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and California Clean Air Acts. If a project's mass regional emissions do not exceed the applicable SCAQMD thresholds, then the project's criteria pollutant emissions would not be cumulatively considerable.

Construction

Project construction would primarily generate temporary criteria pollutants from construction equipment operation on-site and construction worker vehicle trips to and from the site. Table 4.3-6 summarizes the estimated maximum daily emissions of pollutants associated with construction of the proposed project. As shown in Table 4.3-6, air pollutant emissions would not exceed SCAQMD regional or localized significance thresholds during construction. Therefore, project construction would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard, and impacts would be considered **less than significant**.

Table 4.3-6 Project Construction Emissions

	Maximum Emissions (lbs/day)					
	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Construction Year 2026	3	29	30	< 1	9	5
Construction Year 2027	1	10	17	< 1	1	1
Construction Year 2028	17	7	11	< 1	< 1	< 1
Maximum Emissions	17	29	30	< 1	9	5
SCAQMD Regional Thresholds	75	100	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No
Maximum On-site Emissions	N/A	21	19	N/A	9	5
SCAQMD Localized Significance Thresholds (LSTs)	N/A	270	1,577	150	13	8
Threshold Exceeded?	N/A	No	No	N/A	No	No

lbs = pounds; VOC = volatile organic compounds; NO_x = nitrogen oxides; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = particulate matter measuring 10 microns or less in diameter; PM_{2.5} = particulate matter measuring 2.5 microns or less in diameter; SCAQMD = South Coast Air Quality Management District

Notes: See Appendix C for modeling results. Some numbers may not add up precisely due to rounding considerations. Maximum on-site emissions are the highest emissions that would occur on the project site from on-site sources, such as heavy construction equipment and architectural coatings, and excludes off-site emissions from sources such as construction worker vehicle trips and haul truck trips.

Operation

Air pollutant emissions generated during project operation would include emissions from area sources (consumer products, landscape maintenance, and architectural coatings), energy sources (natural gas combustion) and mobile sources (vehicle trips). Table 4.3-7 summarizes the operational emissions by emission source. As shown therein, operational emissions would not exceed SCAQMD regional thresholds for criteria pollutants. In addition, because this analysis conservatively does not account for air pollutant emissions generated by existing on-site development, the net change in air pollutant emissions associated with the proposed project as compared to existing conditions would be less than that shown in Table 4.3-7 and even further below SCAQMD thresholds. Therefore, project operation would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard. Impacts would be **less than significant**.

Table 4.3-7 Project Operational Emissions

Emission Source	Maximum Daily Emissions (lbs/day)					
	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	2	< 1	< 1	< 1	< 1	< 1
Energy	< 1	1	< 1	< 1	< 1	< 1
Mobile	7	5	48	< 1	4	1
Total Emissions	9	6	49	< 1	4	1
SCAQMD Regional Thresholds	55	55	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No

lbs = pounds; VOC = volatile organic compounds; NO_x = nitrogen oxides; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = particulate matter measuring 10 microns or less in diameter; PM_{2.5} = particulate matter measuring 2.5 microns or less in diameter; SCAQMD = South Coast Air Quality Management District

Notes: See Appendix C for modeling results. Some numbers may not add up precisely due to rounding considerations.

Secondary Impacts of Displaced Recreational Activities

As discussed in Section 4.16, *Recreation*, the proposed project would require removal of the existing open recreation field on site, which would result in the re-location of existing on-site UCR and City recreational activities to other nearby UCR and City facilities. Under existing baseline conditions, this re-location of City recreational activities would occur regardless of the proposed project on September 17, 2027, which is the date on which the City’s non-exclusive license for use of the open recreation field on site will expire. Therefore, assuming project construction begins as early as January 1, 2026, these effects on recreational facility usage would only be attributable to the proposed project for a period of approximately 20.5 months.

Upon the start of project construction, existing users of the open recreational field on site may have to travel shorter or further distances to reach other nearby UCR and City facilities to engage in recreational activities previously conducted on the location of the proposed STEM Education Center and associated improvements area. Several other UCR and City recreational facilities are available within two miles of the project site, as outlined in Section 4.16, *Recreation*. The distance traveled by any given user would depend on their origin and destination locations, which could vary widely, especially based on what recreational facilities the user desires (e.g., soccer fields, softball fields, open fields). Based on whether overall vehicle miles traveled associated with existing recreational use of the location of the proposed STEM Education Center and associated improvements area increases or decreases, air pollutant emissions would increase or decrease correspondingly.

For the purposes of CEQA, estimating the net change in vehicle miles traveled and the resulting air pollutant emissions associated with this change would be speculative because of the multiple unknown variables and data involved, such as the origin and destination locations of each existing user of the open recreational field. As stated in Sections 15144, 15145, and 15146(b) of the CEQA Guidelines, the lead agency is not required to, nor should it, engage in speculation or conjecture. As stated in CEQA Guidelines Section 15145, if, after thorough investigation, a lead agency finds that particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold c: Would the proposed project expose sensitive receptors to substantial pollutant concentrations?

Impact AQ-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT EXPOSE SENSITIVE RECEPTORS TO SUBSTANTIAL POLLUTANT CONCENTRATIONS FROM CARBON MONOXIDE HOTSPOTS OR TACS. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As summarized in Section 4.3.2, *Existing Conditions*, the sensitive receptors nearest the project site include the Falkirk UCR campus housing approximately 40 feet to the south of the proposed location of the STEM Education Center and the Stonehaven multi-family residential complex approximately 50 feet to the north of the electrical feeder line upgrade alignment. Several other sensitive receptors, including the REACH Leadership STEAM Academy, single-family and multi-family residences, and the Islamic Academy of Riverside, are also located within 1,000 feet of the project site. Localized air quality impacts to sensitive receptors typically result from carbon monoxide hotspots and TACs, which are discussed in the following subsections.

Carbon Monoxide Hotspots

A carbon monoxide hotspot is a localized concentration of carbon monoxide that is above a carbon monoxide ambient air quality standard. Localized carbon monoxide hotspots can occur at intersections with heavy peak hour traffic. Specifically, hotspots can be created at intersections where traffic levels are sufficiently high such that the local carbon monoxide concentration exceeds the federal one-hour standard of 35.0 parts per million or the federal and State eight-hour standard of 9.0 parts per million (CARB 2016).

The SCAB is in conformance with State and federal carbon monoxide standards, and most air quality monitoring stations no longer report carbon monoxide levels. In 2021, the Riverside-Rubidoux station, located at 5888 Mission Boulevard approximately 5.3 miles west of the project site, detected an eight-hour maximum carbon monoxide concentration of 1.8 parts per million, which is substantially below the State and federal standards (see Table 4.3-1 in Section 4.3.2, *Existing Conditions*). As indicated in Table 4.3-7 under Impact AQ-2, the proposed project would result in operational carbon monoxide emissions of approximately 43 pounds per day, which is below the SCAQMD's 550 pounds-per-day threshold. Based on the low background level of carbon monoxide in the project area, improving vehicle emissions standards for new cars in accordance with State and federal regulations, and the proposed project's operational carbon monoxide emissions, the proposed project would not create new hotspots or contribute substantially to existing carbon monoxide hotspots. Therefore, the proposed project would not expose sensitive receptors to substantial carbon monoxide concentrations, and impacts would be **less than significant**.

Toxic Air Contaminants

Construction

Construction-related activities would result in temporary project-generated DPM exhaust emissions from off-road, heavy-duty diesel equipment for site preparation, grading, building construction, and other construction activities. DPM was identified as a TAC by CARB in 1998. The potential cancer risk from the inhalation of DPM, discussed in the following paragraphs, outweighs the potential non-cancer health impacts (CARB 2022a).

Generation of DPM from construction projects typically occurs in a single area for a short period. Project construction would occur in phases over approximately three years. The dose to which the receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the extent of exposure that person has to the substance. Dose is positively correlated with time, and a more extended exposure period would result in a higher exposure level for the maximally exposed individual. The risks estimated for a Maximally Exposed Individual are higher if a fixed exposure occurs over a more extended period.

The proposed project would be consistent with the applicable AQMP requirements and control strategies intended to reduce emissions from construction equipment and activities. The proposed project would comply with the CARB Air Toxics Control Measure that limits diesel powered equipment and vehicle idling to no more than five minutes at a location, and the CARB In-Use Off-Road Diesel Vehicle Regulation. Compliance with these regulations would minimize emissions of TACs during construction. Therefore, the proposed project would not have the potential to expose sensitive receptors to substantial TAC concentrations that would potentially exceed cancer risk greater than 10 incidents per one million population during construction. Therefore, project construction would not expose sensitive receptors to substantial TAC concentrations, and impacts would be **less than significant**.

Operation

CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* (2005) provides recommendations regarding the siting of new sensitive land uses near potential sources of air toxic emissions (e.g., freeways, distribution centers, rail yards, ports, refineries, chrome plating facilities, dry cleaners, and gasoline dispensing facilities). CARB guidelines recommend siting distances both for the development of sensitive land uses in proximity to TAC sources and for the addition of new TAC sources in proximity to existing sensitive land uses. School land uses are not considered land uses that generate substantial TAC emissions based on reviewing the air toxic sources listed in CARB's guidelines. Therefore, the expected hazardous TACs generated on site (e.g., cleaning solvents, paints, landscape pesticides, etc.) for the proposed project would be below thresholds warranting further study under the California Accidental Release Program, and the proposed project would not expose off-site sensitive receptors to significant amounts of carcinogenic or TACs. Therefore, project operation would not expose sensitive receptors to substantial TAC concentrations, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold d: Would the proposed project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Impact AQ-4 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN OTHER EMISSIONS (SUCH AS THOSE LEADING TO ODORS) ADVERSELY AFFECTING A SUBSTANTIAL NUMBER OF PEOPLE. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

During construction activities, heavy equipment and vehicles would emit odors associated with vehicle and engine exhaust and during idling. The odors would be limited to the time that construction equipment is operating, would be temporary, and would dissipate rapidly with distance. In addition, project operation would not result in other emissions, such as those leading to odors, adversely affecting a substantial number of people. Accordingly, project construction would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people, and impacts would be **less than significant**.

Operation of the proposed project would not generate other emissions, such as those leading to odors, that would affect a substantial number of people because the proposed project does not include odor-generating components. Therefore, project operation would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.3.5 Cumulative Impacts

The geographic scope for analyzing cumulative air quality impacts is the SCAB. The SCAB is designated a nonattainment area for the ozone NAAQS and CAAQS, the PM₁₀ CAAQS, the 24-hour PM_{2.5} NAAQS, and annual PM_{2.5} NAAQS and CAAQS. The SCAB is in attainment of all other NAAQS and CAAQS. Therefore, cumulative air quality impacts related to particulate matter and ozone are potentially **significant**.

In accordance with CEQA Guidelines Section 15064(h)(3), the SCAQMD's approach for assessing cumulative impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and California Clean Air Acts. If a project's mass regional emissions do not exceed the applicable SCAQMD thresholds, then the project's criteria pollutant emissions would not be cumulatively considerable. The proposed project would contribute emissions of particulate matter and ozone precursors VOC and NO_x to the area during construction and operation. As described under Impact AQ-2, project emissions during construction and operation would not exceed SCAQMD regional significance thresholds. Therefore, the proposed project's contribution to cumulative air quality impacts related to particulate matter and ozone would **not be cumulatively considerable (less than significant)**.

As identified in Section 4.2, *Air Quality*, under Impacts AQ-3 and AQ-4, the proposed project would not result in a significant impact related to carbon monoxide hotspots, TACs, or odors. Discussion of these impacts considers the cumulative nature of the pollutants in the region; for example, the cancer risk and non-cancer risk thresholds have been set pursuant to existing cancer risks in the area and exceeding those thresholds would be considered a cumulative impact. Because the proposed project would not exceed those thresholds, it would not expose sensitive receptors to a cumulatively considerable amount of substantial pollutant concentrations from carbon monoxide hotspots or TACs or emit a cumulatively considerable quantity of other emissions, such as those leading to odors. Therefore, the project's contribution to cumulative air quality impacts related to these pollutants would **not be cumulatively considerable (less than significant)**.

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4.4 Biological Resources

4.4.1 Introduction

This section describes existing biological resources conditions at and near the project site and evaluates whether implementation of the proposed project would result in any environmental impacts associated with special-status species, riparian habitat, sensitive natural communities, State or federally protected wetlands, native wildlife movement, native wildlife nursery sites, local policies and ordinances protecting biological resources, and adopted Habitat Conservation Plans (HCPs), Natural Community Conservation Plans, and other approved local, regional, or State HCPs.

4.4.2 Existing Conditions

General Conditions

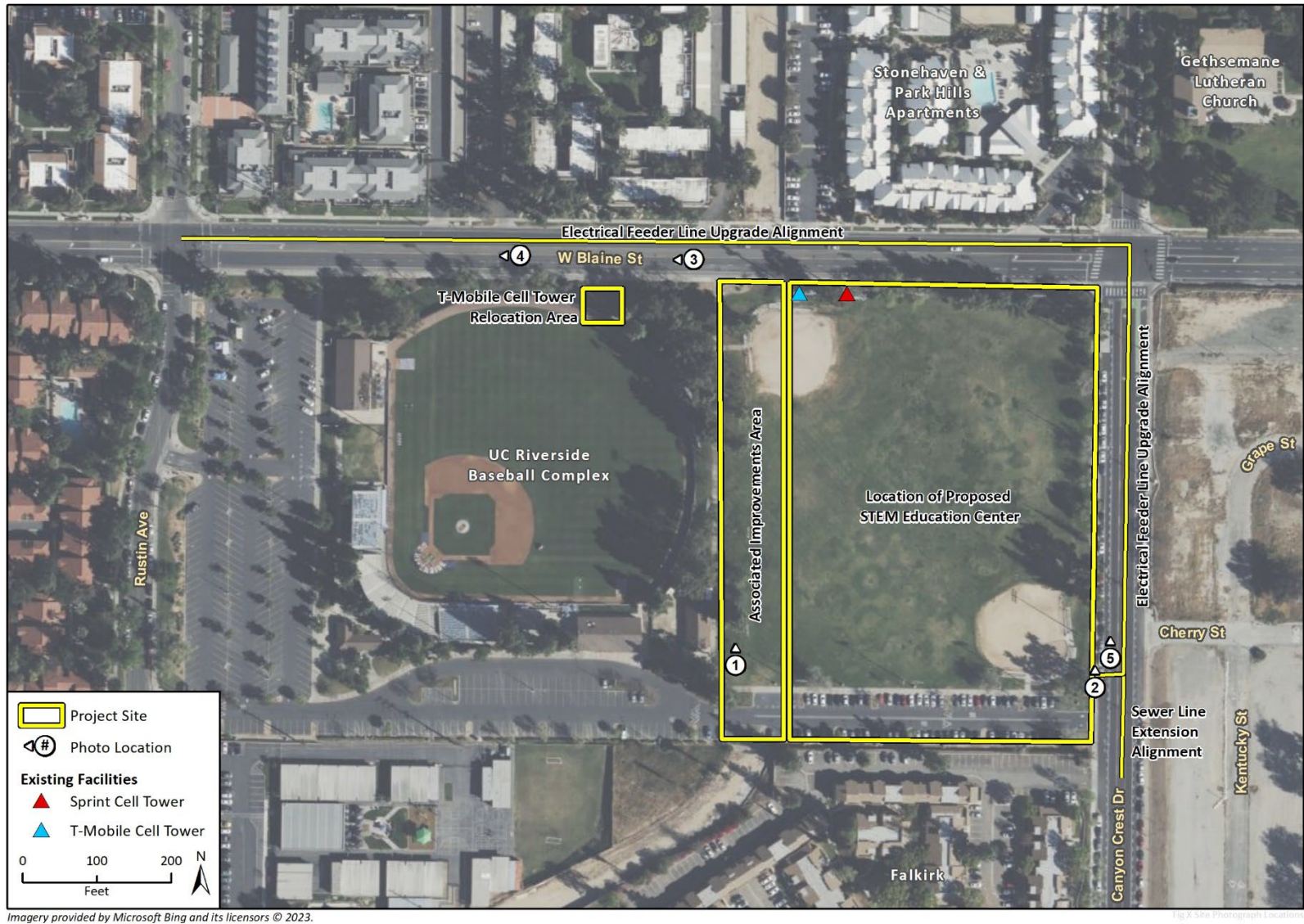
The project site is located in the City of Riverside (City) near the southwest corner of the intersection of Blaine Street and Canyon Crest Drive within a predominantly urbanized area. The project site is currently used as an open recreational field with two baseball diamonds, surface parking, a Sprint Cell Tower, a T-Mobile Cell Tower, a landscaped area behind the outfield of the UCR Baseball Complex with maintained grass and trees, and the paved roadways of Canyon Crest Drive and Blaine Street. The underground Gage Canal also passes below the associated improvements area. Surrounding areas include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Existing uses on Canyon Crest Drive include the mostly undeveloped North District Development area located to the east;¹ Falkirk Apartments for student housing and a portion of the underground Gage Canal to the south; REACH Leadership STEAM Academy, a church, and a portion of the underground Gage Canal to the southwest; and the UCR Baseball Complex to the west. Interstate 215/State Route 60 freeway is located approximately 0.3 mile to the northwest, west and southwest, and the Box Springs Mountains are located approximately 1.2 miles to the east. Topography on the project site is relatively flat with elevations ranging from approximately 1,020 to 1,030 feet above mean sea level. Locations of site photographs are shown in Figure 4.4-1 through Figure 4.4-4 .

Vegetation Communities and Land Cover Types

Two land cover types are present within the project site: landscaped areas and developed (Figure 4.4-5).

¹ The UCR North District Development (NDD) Phase 1 located at the southeastern portion of the NDD area, which includes approximately 1,500 student beds, was completed in summer 2021. NDD Phase 2 is currently undergoing its planning and environmental process. Construction of the future phases of the North District area (e.g., residence hall beds, apartment beds, dining facilities, recreation) will be determined at a later date pending demand and funding.

Figure 4.4-1 Site Photograph Locations



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Fig 4.4-1 Site Photograph Locations

Figure 4.4-2 Site Photographs



Photograph 1. Representative photo of recreation field within project site. Taken September 16, 2022.



Photograph 2. Euclayptus trees adjacent to existing recreation field within project site. Taken September 16, 2022.

Figure 4.4-3 Site Photographs



Photograph 3. View facing west along Blaine Street, north of the UC Riverside Baseball Complex in the vicinity of the proposed electrical feeder line upgrade alignment. Taken September 16, 2022.



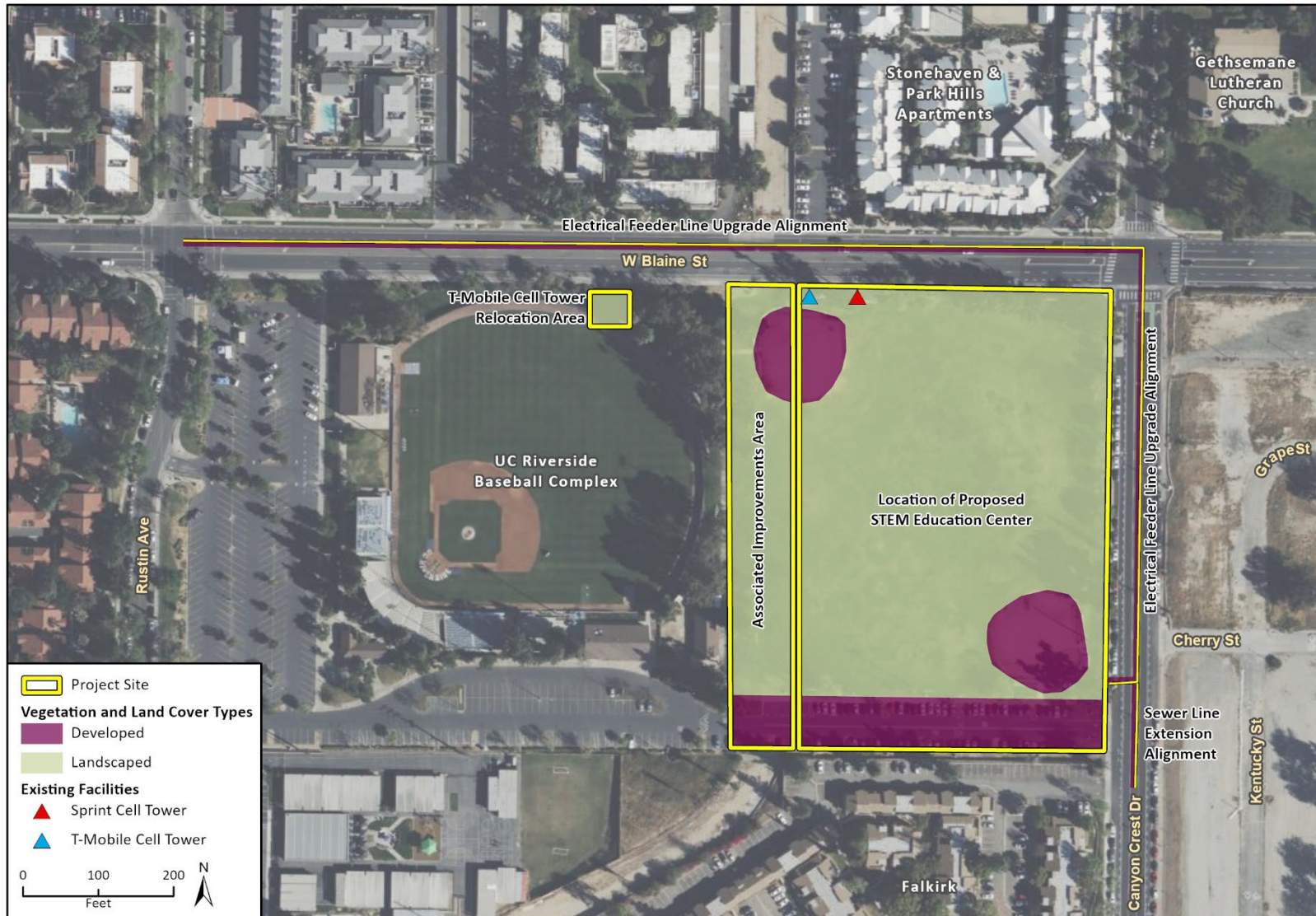
Photograph 4. Proposed electrical feeder line upgrade alignment area along Blaine Street. Taken September 16, 2022.

Figure 4.4-4 Site Photographs



Photograph 5. Proposed utilities improvement alignment area along Canyon Crest Drive. Taken September 16, 2022.

Figure 4.4-5 Land Cover Types



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19-08991 EPS
 Fig 4.4-3 Vegetation Communities and Land Cover

Landscaped Areas

Landscaped areas are considered open spaces that have been developed with turf-covered lawn areas or ground cover and mature trees. The majority of the project site (primarily the location of the proposed STEM Education Center and the T-Mobile Cell Tower Relocation Area) is classified as landscaped. This vegetation type includes a variety of mature trees such as gum trees (*Eucalyptus* sp.), deodar cedar (*Cedrus deodara*), and velvet ash (*Fraxinus velutina*). Understory vegetation is limited, and the primary ground cover is turf grass.

Developed

Within the project site, developed areas include paved surfaces such as roadways and parking lots as well as the baseball diamonds.

Wildlife

The project site generally provides low-quality wildlife habitat. The presence of non-native vegetation, human activity, and surrounding urban development decreases the wildlife value relative to undisturbed areas. Wildlife species are expected to be relatively urban-tolerant and acclimated to human activity. Wildlife detections were based on observations that occurred during the reconnaissance field survey conducted by Rincon Consultants, Inc. (described under *Methodology* in Section 4.4.4, *Impacts and Mitigation Measures*) or that are expected to occur on the project site based on presence of suitable habitat. Taxonomy and nomenclature for wildlife generally follows the *Special Animals List* (California Department of Fish and Wildlife [CDFW] 2022a for special-status species), the Center for North American Herpetology for amphibians and reptiles, the American Ornithological Society for birds, and the Smithsonian National Museum of Natural History for mammals.

Fish and Amphibians

Suitable aquatic habitat for fish and amphibian species is absent from the project site. No fish or amphibian species were observed during the field survey.

Reptiles

No reptile species were directly observed during the field survey. Common reptile species expected to occur within the project site include western fence lizard (*Sceloporus occidentalis*), side-blotched lizard (*Uta stansburiana*), and gopher snake (*Pituophis catenifer*).

Birds

Bird species observed on or adjacent to the project site include American crow (*Corvus brachyrhynchos*), house finch (*Haemorhous mexicanus*), black phoebe (*Sayornis nigricans*), red-shouldered hawk (*Buteo lineatus*), California towhee (*Melospiza crissalis*), Anna's hummingbird (*Calypte anna*), and mourning dove (*Zenaidura macroura*). Suitable nesting habitat for birds, including mature trees, is present within and adjacent to the project site.

Mammals

No mammal species or evidence of mammal presence (e.g., scat, burrows) were directly observed during the field survey. Mammal species that may occur within the project site include common

raccoon (*Procyon lotor*), Virginia opossum (*Didelphis virginiana*), and striped skunk (*Mephitis mephitis*). Common bat species with potential to forage in the project site include big brown bat (*Eptesicus fuscus*). Bats may also roost in trees within and near the project site.

Soils

Soils within the project site are mapped as Buren fine sandy loam, 2 to 8 percent slopes, eroded and Arlington fine sandy loam, deep, 2 to 8 percent slopes (United States Department of Agriculture [USDA] Natural Resources Conservation Service [NRCS] 2022a).

The Buren series consists of well drained slow to moderately slow permeable soils that are typically located on gently to strongly sloping alluvial fans and terraces and are formed in alluvium derived mostly from basic igneous rocks and partly from other crystalline rocks. Buren fine sandy loam, 2 to 8 percent slopes, eroded is mapped throughout most of the project site (USDA NRCS 2022b).

The Arlington series consists of well drained, slow to medium runoff, and slow permeability soils that are typically located on nearly level to strongly sloping areas, alluvial fans, and terraces. Arlington fine sandy loam, deep, 2 to 8 percent slopes are limited to the sewer line extension alignment and the west end of the electrical feeder line upgrade alignment (USDA NRCS 2022b).

Western Riverside County Multiple Species Habitat Conservation Plan

The project site is located within the planning area of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The MSHCP is a comprehensive, multi-jurisdictional HCP that focuses on conservation of species and their associated habitats in Western Riverside County. The Western Riverside County Regional Conservation Authority (RCA) was formed in 2004 to implement the MSHCP to protect 146 native species of plants, birds, and animals, as well as to preserve a half-million acres of habitat (RCA 2022). The MSHCP allows participating jurisdictions to authorize the “take” of plant and wildlife species identified within the plan area. UCR has the option of utilizing the MSHCP as a Participating Special Entity.² If processing a project under the MSHCP, UCR would be required to follow all aspects of the MSHCP for that project. However, if choosing not to process a project under the MSHCP, the project would have to be processed under traditional consultation and permitting mechanisms if it would result in impacts to protected species (UCR 2021a). The project site is not within an Area Plan Subunit or within any MSHCP Criteria Cells that identify specific Biological Issues and Considerations or require focused species surveys.

Special-Status Species

Special-status species are those plants and animals listed, proposed for listing, or candidates for listing as Threatened or Endangered by the U.S. Fish and Wildlife Service (USFWS) under the Federal Endangered Species Act (ESA), those considered Species of Concern by the USFWS, those listed or candidates for listing as Rare, Threatened, or Endangered by CDFW under the California Endangered Species Act (CESA) and Native Plant Protection Act, animals designated as Fully Protected by the California Fish and Game Code (CFGC), animals listed as Species of Special Concern (SSC) by CDFW, CDFW Special Plants (specifically those with California Rare Plant Ranks [CRPR] of 1B, 2, 3, and 4 in the California Native Plant Society [CNPS] Inventory of Rare and Endangered Vascular Plants of California) and species identified as sensitive by the MSHCP (County of Riverside 2003).

² A Participating Special Entity is any regional public facility provider (e.g., a utility company, a public district or agency) that operates and/or owns land within the MSHCP Plan Area and that applies for Take Authorization pursuant to Section 11.8 of the Implementing Agreement.

Plants with a CRPR of 1B are rare throughout their range with the majority of them endemic to California. Most of the plants ranked 1B have declined substantially over the last century. CRPR 1B plants constitute the majority of taxa in the CNPS Inventory, with more than 1,000 plants assigned to this category of rarity. Plants with a CRPR of 2A are presumed extirpated³ because they have not been observed or documented in California for many years. This list only includes plants that are presumed extirpated in California but may be more common elsewhere in their range. Plants with a CRPR of 2B meet the requirements of the 1B ranking within California but are common in other states or countries. Plants with a CRPR of 3 lack the necessary information to assign them to one of the other ranks or to reject them. Plants with a CRPR of 4 are of limited distribution or infrequent throughout a broader area in California, and their status is being monitored.

CRPR Ranks at each level also include a threat rank (e.g., CRPR 4.3) and are determined as follows:

- 0.1 - seriously threatened in California (over 80 percent of occurrences threatened/high degree and immediacy of threat)
- 0.2 - moderately threatened in California (20 to 80 percent of occurrences threatened/moderate degree and immediacy of threat)
- 0.3 - not very threatened in California (less than 20 percent of occurrences threatened/low degree and immediacy of threat or no current threats known)

Queries of the California Natural Diversity Database (CNDDDB; CDFW 2022b) and CNPS Online Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2022a) were conducted for the United States Geological Survey 7.5-minute *Riverside East* topographic quadrangle and surrounding eight quadrangles to obtain comprehensive information for federally and State listed species known to or considered to have potential to occur on or near the project site.

The literature search identified 44 special-status plant species and 61 special-status wildlife species as having potential to occur in the region of the project site. Special-status plant and wildlife species were evaluated for their potential to occur within the project site based on habitat requirements, availability and quality of suitable habitat, and known distributions.

Special-Status Plant Species

Forty-four special-status plant species have been reported in the region of the project site. Of these, none are expected to occur due to a lack of suitable habitat. The project site is currently landscaped with turf grass or developed with paved surfaces/baseball diamonds/cell towers, which do not provide suitable substrates or vegetation communities for these special-status plant species to occur. See Appendix D for a full list of special-status plant species that have been reported in the region of the project site, their habitat requirements, and an evaluation of their potential to occur on site.

Special-Status Wildlife Species

Sixty-one special-status wildlife species have been reported in the region of the project site. Of these, the following 16 species are federally and/or State listed Endangered or Threatened species or are candidates for listing:

- Quino checkerspot butterfly (*Euphydryas editha quino*; Federally Endangered [FE])
- Delhi Sands flower-loving fly (*Rhaphiomidas terminates abdominalis*; FE)

³ A plant that is extirpated from California has been eliminated from California but may still occur elsewhere in its range.

- Riverside fairy shrimp (*Streptocephalus woottoni*; FE)
- Santa Ana sucker (*Catostomus santaanae*; Federally Threatened [FT])
- Steelhead - southern California distinct population segment (*Oncorhynchus mykiss irideus* pop. 10; FE)
- Southern mountain yellow-legged frog (*Rana muscosa*; FE and State Endangered [SE])
- Tricolored blackbird (*Agelaius tricolor*; State Threatened [ST])
- Swainson's hawk (*Buteo swainsoni*; ST)
- Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*; FT and SE)
- Southwestern willow flycatcher (*Empidonax traillii extimus*; FE and SE)
- Bald eagle (*Haliaeetus leucocephalus*; SE)
- California black rail (*Laterallus jamaicensis coturniculus*; ST)
- Coastal California gnatcatcher (*Polioptila californica*; FT)
- Least Bell's vireo (*Vireo bellii pusillus*; FE and SE)
- San Bernardino kangaroo rat (*Dipodomys merriami parvus*; FE and State Candidate Endangered)
- Stephens' kangaroo rat (*Dipodomys stephensi*; FT and ST)

Suitable habitat, including aquatic resources and native vegetation communities, for each of these species is absent from the project site. The site is entirely landscaped or developed and is surrounded by developed lands. Therefore, these species have no potential to occur within the project site.

In addition to species formally listed by CDFW and USFWS, several other special-status species (SSC, Watch List, and Fully Protected species) have been reported near the project site. Of these, one species, western yellow bat (*Lasiurus xanthinus*; SSC), has a limited potential to occur on the project site due to the presence of marginally suitable habitat. The trees within and near the project site provide potentially suitable roosting habitat for this species. The remaining species reported from database searches are not expected to occur in the project site due to a lack of suitable habitat, including aquatic resources and native vegetation communities. See Appendix D for a full list of special-status wildlife species that have been reported in the region of the project site, their habitat requirements, and an evaluation of their potential to occur on site.

Sensitive Natural Communities and Critical Habitats

CDFW provides a list of vegetation Alliances, Associations, and Special Stands that are considered "Sensitive Natural Communities" based on their rarity and threat. Queries of the CNDDDB (CDFW 2022b) and USFWS Critical Habitat Portal (USFWS 2022a) were conducted for the United States Geological Survey 7.5-minute *Riverside East* topographic quadrangle and surrounding eight quadrangles and project site to obtain comprehensive information for sensitive communities and federally-designated critical habitat known to or considered to have potential to occur on or near the project site. The literature search identified eight special-status natural communities as having potential to occur in the region of the project site. However, none of these sensitive natural communities were observed to be present within the project site during the field survey.

Under the federal ESA, "Critical Habitat" is designated at the time of listing of a species or within one year of listing. Critical Habitat refers to specific areas within the geographical range of a species at the time it is listed that include the physical or biological features that are essential to the survival and eventual recovery of that species. Maintenance of these physical and biological features

requires special management considerations or protection, regardless of whether individuals or the species are present or not. The project site is not located in an area designated or proposed as Critical Habitat (USFWS 2022a).

Potential Jurisdictional Resources

The project site is within the East Etiwanda Creek-Santa Ana River Watershed (Hydrologic Unit Code 180702030804), which encompasses approximately 138,519 acres in Riverside and San Bernardino counties. The National Wetlands Inventory does not identify wetlands within the project site but does map the Gage Canal, which is a drainage feature that historically provided irrigation water from the Santa Ana River to various locations within the City (USFWS 2022b). The National Wetlands Inventory identifies the Gage Canal immediately adjacent to the proposed location of the STEM Education Center and T-Mobile Cell Tower Relocation Area and crossing below the associated improvements area and through a portion of the electrical feeder line upgrade alignment based on aerial imagery from 1974. The canal has since been undergrounded. The reconnaissance survey did not identify any potentially jurisdictional resources within the project site.

MSHCP Riparian/Riverine Habitat

Riparian/riverine areas are described by the MSHCP as “lands which contain habitat dominated by trees, shrubs, persistent emergent, or emergent mosses and lichens which occur close to or which depend upon soil moisture from a nearby fresh water source or areas with freshwater flow during all or a portion of the year” (County of Riverside 2003). Riparian/riverine areas under the MSHCP also include drainage areas that are vegetated or have upland (non-riparian/riverine) vegetation that drain directly into an area that is described for conservation under the MSHCP (or areas already conserved).

The project site does not contain any riparian/riverine habitat as defined by the MSHCP.

Wildlife Corridors and Linkages

Habitat linkages provide links between larger undeveloped habitat areas that are separated by development. Wildlife corridors are similar to linkages but provide specific opportunities for animals to disperse or migrate between areas. A corridor can be defined as a linear landscape feature of sufficient width to allow animal movement between two comparatively undisturbed habitat fragments. Adequate cover is essential for a corridor to function as a wildlife movement area. It is possible for a habitat corridor to be adequate for one species yet inadequate for others. Wildlife corridors are significant features for dispersal, seasonal migration, breeding, and foraging. Additionally, open space can provide a buffer against both human disturbance and natural fluctuations in resources.

The project site is completely surrounded by urban development in the City and therefore generally does not provide wildlife movement opportunities. The Gage Canal located immediately adjacent to the proposed location of the STEM Education Center and T-Mobile Cell Tower Relocation Area and below the associated improvements area and a portion of the electrical feeder line upgrade alignment is undergrounded and potential opportunities for wildlife movement are limited to urban-adapted species such as northern raccoon (*Procyon lotor*), Virginia opossum (*Didelphis virginiana*), and striped skunk (*Mephitis mephitis*).

4.4.3 Regulatory Framework

Federal

U.S. Army Corps of Engineers

Congress enacted the Clean Water Act (CWA) “to restore and maintain the chemical, physical, and biological integrity of the Nation’s waters.” Section 404 of the CWA authorizes the Secretary of the Army, acting through the U.S. Army Corps of Engineers (USACE), to issue permits regulating the discharge of dredged or fill materials into the “navigable waters at specified disposal sites.”

Section 502 of the CWA further defines “navigable waters” as “waters of the United States, including the territorial seas.” “Waters of the United States” are broadly defined at 33 Code of Federal Regulations (CFR) Part 328.3 to include navigable waters, perennial and intermittent streams, lakes, rivers, and ponds as well as wetlands, marshes, and wet meadows. In recent years, the USACE and U.S. Environmental Protection Agency (USEPA) have undertaken several efforts to modernize their regulations defining “waters of the United States” (e.g., the 2015 Clean Water Rule and 2020 Navigable Waters Protection Rule), but these efforts have been frustrated by legal challenges that have invalidated the updated regulations. Thus, the agencies’ longstanding definition of “waters of the United States,” which dates from 1986, remains in effect albeit with supplemental guidance interpreting applicable court decisions as described below.

In summary, USACE and USEPA regulations define “waters of the United States” as follows:

1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
2. All interstate waters including interstate wetlands;
3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters:
 - i. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
 - ii. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - iii. Which are used or could be used for industrial purpose by industries in interstate commerce;
4. All impoundments of waters otherwise defined as waters of the United States;
5. Tributaries of waters identified in items 1 through 4 above;
6. The territorial sea;
7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in items through 6 above.

The lateral limits of USACE jurisdiction in non-tidal waters is defined by the “ordinary high-water mark” (OHWM) unless adjacent wetlands are present. The OHWM is a line on the shore or edge of a channel established by the fluctuations of water and indicated by physical characteristics such as a

clear, natural line impressed upon the bank, shelving, changes in the character of soil, destruction of vegetation, or the presence of debris (33 CFR 328.3[e]). As such, waters are recognized in the field by the presence of a defined watercourse with appropriate physical and topographic features. If wetlands occur within, or adjacent to, waters of the United States, the lateral limits of the USACE jurisdiction extend beyond the OHWM to the outer edge of the wetlands (33 CFR 328.4[c]). The upstream limit of jurisdiction in the absence of adjacent wetlands is the point beyond which the OHWM is no longer perceptible (33 CFR 328.4; see also 51 Federal Register 41217).

The USACE defines wetlands as “those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions” (33 CFR 328.3). The USACE’s delineation procedures identify wetlands in the field based on indicators of three wetland parameters: hydrophytic vegetation, hydric soils, and wetland hydrology.

U.S. Fish and Wildlife Service

The USFWS implements the federal Migratory Bird Treaty Act (MBTA) (16 United States Code Sections 703 through 711) and the Bald and Golden Eagle Protection Act (16 United States Code Section 668). The USFWS and National Marine Fisheries Service share responsibility for implementing the federal ESA (16 United States Code Section 153 et seq.). The USFWS generally implements the federal ESA for terrestrial and freshwater species, while the National Marine Fisheries Service implements the federal ESA for marine and anadromous species. Projects that would result in “take” of any federally listed threatened or endangered species are required to obtain authorization from the USFWS or National Marine Fisheries Service through either Section 7 (interagency consultation with a federal nexus) or Section 10 (Habitat Conservation Plan) of the federal ESA, depending on the involvement by the federal government in permitting and/or funding of the project. “Take” under the federal definition means to harass, harm (which includes habitat modification), pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The permitting process is used to determine if a project would jeopardize the continued existence of a listed species and what measures would be required to avoid jeopardizing the species. Proposed or candidate species do not have the full protection of the federal ESA; however, the USFWS and National Marine Fisheries Service advise project applicants that the species could be elevated to listed status at any time.

Migratory Bird Treaty Act

The federal MBTA of 1918 was originally enacted between the United States and Great Britain (acting on behalf of Canada) for the protection of migratory birds between the two countries. The MBTA has since been expanded to include Mexico, Japan, and Russia. Under MBTA provisions, it is unlawful “by any means or manner to pursue, hunt, take, capture (or) kill” any migratory birds as defined by the MBTA except as permitted by regulations issued by the USFWS. The term “take” is defined by the USFWS regulation to mean to “pursue, hunt, shoot, wound, kill, trap, capture or collect” any migratory bird or any part, nest, or egg of any migratory bird covered by the conventions, or to attempt those activities.

State

California Fish and Game Code

The CDFW derives its authority from the CFGC. Key portions of the CFGC applicable to the proposed project are summarized below.

SECTION 2050 ET SEQ. - CALIFORNIA ENDANGERED SPECIES ACT

The CESA (CFGC Section 2050 et seq.) prohibits the take of any plant or animal listed or proposed for listing as rare (plants only), threatened, or endangered. In accordance with CESA, CDFW has jurisdiction over State listed species (CFGC Section 2070). The CDFW regulates activities that may result in take of individuals (i.e., hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill). Habitat degradation or modification is not expressly included in the definition of take under the CFGC.

SECTIONS 3511, 4700, 5050, AND 5515 – FULLY PROTECTED SPECIES

Take of Fully Protected species is prohibited under CFGC Sections 3511, 4700, 5050, and 5515. CFGC Section 86 defines “take” as hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, capture, or kill. This definition does not include indirect harm by way of habitat modification.

SECTIONS 3503, 3503.5, AND 3511 – BIRDS, NESTS, AND EGGS

CFGC Sections 3503, 3503.5, and 3511 restrict the take, possession, and destruction of birds, nests, and eggs. CFGC Section 3503.5 specifically protects all birds-of-prey and their eggs and nests against take, possession, or destruction. In addition, fully protected birds may not be taken or possessed except under specific permit (Section 3511).

SECTION 1900 ET SEQ. – NATIVE PLANT PROTECTION ACT

The Native Plant Protection Act (CFGC Section 1900 et seq.) requires CDFW to establish criteria for determining if a species, subspecies, or variety of native plant is endangered or rare. Under Section 1913(c) of the Native Plant Protection Act, the owner of land where a rare or endangered native plant grows is required to notify the department at least 10 days in advance of changing the land use to allow for salvage of plant(s).

SECTION 1600 ET SEQ. – LAKE AND STREAMBED ALTERATION

Perennial, intermittent, and ephemeral streams and associated riparian vegetation, when present, fall under the jurisdiction of CDFW. Section 1600 et seq. of the CFGC (Lake and Streambed Alteration Agreements) gives CDFW regulatory authority over work in the bed, bank, and channel (which could extend to the 100-year floodplain), consisting of, but not limited to, the diversion or obstruction of the natural flow or changes in the channel, bed, or bank of any river, stream or lake. CFGC Section 1602 specifically states it is unlawful for any person to “substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake” without first notifying CDFW of that activity. Once notice is provided, if CDFW determines and informs the entity that the activity will not substantially adversely affect any existing fish or wildlife resources, the entity may commence the activity. If, however, CDFW determines the activity may substantially adversely affect an existing fish or wildlife resource, the entity may be required to obtain a Lake/Streambed Alteration Agreement (LSAA) from CDFW, which will include reasonable measures necessary to protect the affected resource(s), before the entity

may conduct the activity described in the notification. Upon receiving a complete Notification of Lake/Streambed Alteration, CDFW has 60 days to present the entity with a Draft LSAA. Upon review of the Draft LSAA by the applicant, any problematic terms are negotiated with CDFW, and a final LSAA is executed.

Species of Special Concern

SSC is a category CDFW uses for those species considered to be indicators of regional habitat changes or considered to be potential future protected species. SSC do not have any special legal status except that which may be afforded by the CFGC, as noted above. CDFW intends the SSC category as a management tool to include these species for special consideration when decisions are made concerning the development of natural lands.

Porter-Cologne Water Quality Act

The State Water Resources Control Board (SWRCB) works in coordination with nine Regional Water Quality Control Boards (RWQCBs) to preserve, protect, enhance, and restore water quality throughout the State. Each RWQCB makes decisions related to water quality for its region, and may approve, with or without conditions, or deny projects that could affect waters of the State. Their authority to regulate activities that could result in a discharge of dredged or fill material comes from the CWA and the Porter-Cologne Water Quality Act.

The Porter-Cologne Water Quality Act broadly defines waters of the State as “any surface water or groundwater, including saline waters, within the boundaries of the state” (SWRCB 2022). Because the act applies to any water, whereas the CWA applies only to certain waters, California’s jurisdictional reach overlaps and may exceed the boundaries of waters of the United States. For example, Water Quality Order No. 2004-0004-DWQ states that “shallow” waters of the State include headwaters, wetlands, and riparian areas. In practice, the RWQCBs may claim jurisdiction over riparian areas. Where riparian habitat is not present, such as may be the case at headwaters and urbanized areas, jurisdiction is taken to the top of bank. Within the region of the project site, the SWRCB and the local Santa Ana RWQCB have jurisdiction over waters of the State, with federal authority under CWA Section 401 and State authority under the Porter-Cologne Water Quality Act.

The SWRCB adopted a State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to waters of the State, for inclusion in the forthcoming Water Quality Control Plan for Inland Surface Waters and Enclosed Bays and Estuaries and Ocean Waters of California. The Procedures consist of four major elements: a wetland definition; a framework for determining if a feature that meets the wetland definition is a water of the State; wetland delineation procedures; and procedures for the submittal, review and approval of applications for Water Quality Certifications and Waste Discharge Requirements for dredge or fill activities (SWRCB 2019).

Pursuant to Section 401 of the CWA, projects regulated by USACE must obtain a Water Quality Certification from the RWQCB. This certification ensures the proposed project will uphold State water quality standards. Because California’s jurisdiction to regulate its water resources is much broader than that of the federal government, proposed impacts on waters of the State require Water Quality Certification even if the area occurs outside of USACE jurisdiction.

University of California, Riverside

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP also includes objectives and policies relevant to biological resources that are applicable to the proposed project, which are summarized in Table 4.4-1.

Table 4.4-1 UCR 2021 LRDP Objectives and Policies Related to Biological Resources

Objective	Policy
Open Space	
Demonstrate an increased commitment to preservation and enhancement of the natural environment through the design and placement of future campus landscapes.	Consider the ecological and potential stormwater management functions of proposed landscapes. Utilize climate-appropriate, native/drought-tolerant, and/or low maintenance landscape materials outside of signature campus open spaces.
Infrastructure and Sustainability	
Transition the campus lands to manage stormwater in a manner that replicates natural drainage patterns and allow plants to filter pollutants out of runoff and promote infiltration overflowing into waterways, thus meeting regulatory requirements through innovative, attractive, and cost-efficient solutions.	To the extent feasible, integrate stormwater infrastructure within the open space framework of campus such that developable campus lands are minimally lost. The Storm Water Management Plan will include planning and design strategies to restore, enhance, and maintain hydrological function on campus and within the regional hydrological system in response to the projected development.

Source: UCR 2021b

Other Campus Planning Documents

To assist in implementation of the 2021 LRDP, UCR includes more detailed planning documents, such as the Physical Design Framework and Campus Construction and Design Standards,⁴ which are considered during the Design Review process. More specifically, as described in the Physical Design Framework, UCR requires all new buildings to include planting that is native, drought-tolerant, low-maintenance, and adapted to xeric conditions (UCR 2020). In addition, the Tree Preservation and Replacement Guidelines (UCR 2022) provide the metrics for reestablishing the green canopy lost to new construction.

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

⁴ The Campus Construction and Design Standards is a living document that replaces the 2007 *Campus Design Guidelines*.

Western Riverside County Multiple Species Habitat Conservation Plan

The Western Riverside County MSHCP was approved and adopted by Riverside County in 2003 as a comprehensive, multi-jurisdictional HCP that focuses on conservation of species and their associated habitats in western Riverside County. The MSHCP Plan Area encompasses approximately 1.26 million acres (1,966 square miles) and includes all of unincorporated Riverside County land west of the crest of the San Jacinto Mountains to the Orange County line along with the jurisdictional areas of the cities of Temecula, Murrieta, Lake Elsinore, Canyon Lake, Norco, Corona, Riverside, Moreno Valley, Banning, Beaumont, Calimesa, Perris, Hemet, Eastvale, Jurupa Valley, Wildomar, Menifee, and San Jacinto. The MSHCP is designed to protect 146 species and conserve 500,000 acres of land.

The MSHCP serves as an HCP pursuant to Section 10(a)(1)(B) of the federal ESA as well as a Natural Community Conservation Plan under the Natural Communities Conservation Plan Act of 2001. The MSHCP is used to allow the participating jurisdictions to authorize take of plant and wildlife species identified in the MSHCP Plan Area under specific conditions/measures. Under the MSHCP, USFWS and CDFW will grant “take authorization” for otherwise lawful actions in exchange for the assembly and management of a coordinated MSHCP conservation area.

City of Riverside General Plan

OPEN SPACE AND CONSERVATION ELEMENT

The City’s General Plan Open Space and Conservation Element seeks to preserve existing natural resources in the City, including hillsides, arroyos and other open space areas that support wildlife species and plant communities (City of Riverside 2012). Objectives related to biological resources that are applicable to the proposed project focus on protecting the Santa Ana River, Sycamore Canyon, arroyos, riparian/riverine areas, vernal pools, and other important watershed areas from urban encroachment, urban pollutants, and erosion (Objectives OS-5) and protecting existing open space linkages consistent with the MSHCP (Objective OS-6). Its policies also address MSHCP survey and protection requirements for species such as the burrowing owl and Stephens’ kangaroo rat (Objective OS-6).

4.4.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Biological Resources to assess the proposed project.

Would the proposed project:

- a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or USFWS?
- b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by CDFW or USFWS?
- c. Have a substantial adverse effect on State or federally protected wetlands (including, but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

- d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?
- e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?
- f. Conflict with the provisions of an adopted HCP, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan?

Methodology

The analysis of biological resource impacts is based on information and data collected during the literature and database reviews conducted to identify special-status plants, wildlife, and habitats that have been reported to occur in the vicinity and region of the project site (as summarized in Section 4.4.2, *Existing Conditions*) and a general biological resources reconnaissance survey conducted by Rincon Consultants, Inc. on September 16, 2022 within the proposed location of the STEM Education Center, T-Mobile Cell Tower Relocation Area, electrical feeder line upgrade alignment, and associated improvements area.⁵ The survey was conducted to document the existing conditions and to evaluate the potential for presence of regulated biological resources in the project site, including special-status plant and wildlife species, sensitive plant communities, potential jurisdictional waters of the U.S./State and wetlands, and habitat for federally and State protected nesting birds.

The field reconnaissance survey was conducted by Rincon Biologist Sarah Toback. Weather conditions during the survey included clear skies with temperatures ranging from 39 degrees Fahrenheit (°F) to 55°F and winds ranging from approximately two to 20 miles per hour. The survey area was surveyed on foot, and all biological resources encountered in the survey area were recorded. Representative photographs of the survey area were taken (see Figure 4.4-1 through Figure 4.4-4 in Section 4.4.2, *Existing Conditions*), and an inventory of all plant and wildlife species observed was compiled. Natural and semi-natural vegetation community classification was based using *A Manual of California Vegetation, Second Edition* (Sawyer et al. 2009), which establishes systematic classifications and definitions of vegetation communities. Updates to the *A Manual of California Vegetation, Second Edition* provided in the online database (CNPS 2022b) were taken into consideration. Each vegetation mapping unit was analyzed for characteristics to define the applicable vegetation community, such as dominant or co-dominant plant species and community membership rules. Additionally, land covers were characterized in areas that appeared to be altered by anthropogenic activities and were dominated by non-native or ornamental vegetation (e.g., ornamental, disturbed).

⁵ Because the sewer line extension alignment is located within a paved right-of-way with development conditions similar to the electrical feeder line upgrade alignment, the sewer line extension alignment was not surveyed.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Impact BIO-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD POTENTIALLY HAVE A SUBSTANTIAL ADVERSE EFFECT, EITHER DIRECTLY OR THROUGH HABITAT MODIFICATIONS, ON SPECIES IDENTIFIED AS A CANDIDATE, SENSITIVE, OR SPECIAL-STATUS SPECIES IN LOCAL OR REGIONAL PLANS, POLICIES, OR REGULATIONS, OR BY CDFW OR USFWS. THEREFORE, IMPLEMENTATION OF MITIGATION MEASURES MM BIO-1, MM BIO-2, AND MM BIO-3 WOULD BE REQUIRED TO REDUCE IMPACTS TO LESS THAN SIGNIFICANT.

The project site is currently disturbed/developed (e.g., open recreational fields, landscaped, cell towers, surface parking area, roadways, hardscape) or adjacent to previously disturbed/developed areas along Canyon Crest Drive and Blaine Street. The proposed project would be an infill development surrounded by existing development. The project site is not located within a special-status species or burrowing owl habitat area (see Figure 4.4-3 in the 2021 LRDP EIR; UCR 2021a).

Special-Status Birds and Raptors

Nesting birds and raptors have the potential to nest in shrubs and trees and on bare ground throughout and near the project site. The nests of most native birds and raptors are protected by federal and State laws. Vegetation within and surrounding the project site has the potential to provide refuge cover from predators, perching sites, and favorable conditions for avian nesting that could be affected by the proposed project. Potential impacts to nesting birds, including common passerine species protected under the MBTA and CFGC, could occur if nests are located on the project site and/or in the immediate vicinity of the project site during construction activities. If bird nests are present, direct impacts from construction activities may result from ground disturbance and removal of trees, and indirect impacts may result from construction noise, lighting, and fugitive dust. These impacts could lead to individual mortality and/or harassment that might reduce nesting success. Additionally, a potential long-term, operational impact to special-status birds and raptors may occur as a result of the proposed glass facades of the STEM Education Center, as shown in Figure 2-5 and Figure 2-6 in Section 2, *Project Description*. Ornithologists estimate that up to a billion birds are killed or injured annually by collisions with clear and reflective sheet glass and plastic. It is thought that birds cannot distinguish between the reflection on the glass/plastic surface and the natural landscape (UCR 2021a). As a result, construction of the glass-fronted portions of the proposed STEM Education Center has the potential to result in bird strike injury and mortality.

Therefore, impacts to special-status birds and raptors would be potentially significant without mitigation. However, implementation of **Mitigation Measures MM BIO-1** and **MM BIO-2** would reduce potential impacts to **less than significant with mitigation incorporated** by providing for nesting bird avoidance and bird strike avoidance.

Bats

Several bat species, including the special-status western yellow bat, may forage and roost in the mature trees within and near the project site. Impacts to a small amount of foraging habitat would not decrease the regional population below self-sustaining levels. Therefore, impacts on foraging habitat would be **less than significant**. However, project construction activities may impact roost

structures and mature vegetation. Bats can roost under broad leaves, under exfoliating bark/tree holes, and crevices. They prefer materials that provide some thermoregulation like thick wood, and signs of bats with staining and guano usually indicate their presence. Impacts to special-status bat species would be considered significant without mitigation. However, implementation of **Mitigation Measure MM BIO-3** would reduce potential impacts to **less than significant with mitigation incorporated** by requiring preconstruction bat surveys.

Mitigation Measures

The following mitigation measures would be required to address potential impacts to special-status species and habitat.

MM BIO-1 Nesting Bird Avoidance

Prior to issuance of the project's grading permit, the following measures shall be implemented:

- To avoid disturbance of nesting and special-status bird species protected by the MBTA and CFGC, activities related to the project, including but not limited to, vegetation removal, ground disturbance, and construction and demolition shall occur outside of the bird breeding season (February 15 through August 31). If construction must be initiated during the nesting season, vegetation and/or tree removal should be planned to occur outside the nesting season (September 1 to February 14) and a preconstruction nesting bird survey shall be conducted no more than three days prior to initiation of construction activities. The nesting bird preconstruction survey shall be conducted on foot inside the project disturbance areas and an additional buffer surrounding the project disturbance areas of at least 100 feet, where accessible and using binoculars to survey inaccessible areas as needed. If no nests or an inactive avian nest is found, construction may proceed. If an active avian nest is discovered during the preconstruction clearance survey, construction activities shall stay outside of a 50- to 200-foot buffer for common nesting birds around the active nest, as determined by a biologist. For listed and raptor species, this buffer shall be expanded to 500 feet or as determined by a biologist.
- Inaccessible areas, such as areas located high up in trees or private properties, shall be surveyed from afar using binoculars. The survey shall be conducted by a qualified biologist familiar with the identification of avian species known to occur in western Riverside County. If nests are found, an appropriate avoidance buffer shall be determined by a qualified biologist and demarcated by a qualified biologist with bright orange construction fencing, flagging, construction lathe, or other means to mark the boundary. Effective buffer distances are highly variable and based on specific project stage, bird species, stage of nesting cycle, work type, and the tolerance of a particular bird pair. The buffer may be up to 500 feet in diameter, depending on the species of nesting bird found and the biologist's observations.
- If nesting birds are located adjacent to the project site with the potential to be affected by construction activity noise above 60 dBA L_{eq} (see Section 4.13, *Noise*, for definitions and discussions of noise levels), a temporary noise barrier shall be erected consisting of large panels designed specifically to be deployed on construction sites for reducing noise levels at sensitive receivers. If construction activities result in a noise level in excess of 60 dBA L_{eq} at the active nest, an acoustician shall require the construction contractor to make operational and barrier changes to reduce noise levels to 60 dBA L_{eq} during the breeding season (February 15 through August 31). Noise monitoring shall occur during operational changes and installation of barriers to ensure their effectiveness. All construction personnel shall be notified as to the existence of the buffer zone and to avoid entering the buffer zone during the nesting season. No parking,

storage of materials, or construction activities shall occur within this buffer until the avian biologist has confirmed the breeding/nesting is completed, and the young have fledged the nest. Encroachment into the buffer shall occur only at the discretion of the qualified biologist, if it is determined such encroachment will not adversely impact the nesting birds.

MM BIO-2 Bird Strike Avoidance

To reduce bird strike mortality and injury of special-status bird species from collisions with clear and reflective sheet glass and plastic, construction of the proposed glass-fronted building or other structures using exposed glass (e.g., glass-topped walls) shall incorporate measures to minimize the risk of bird strikes, including: (1) the use of opaque or uniformly textured/patterned/etched glass, (2) angling of glass downward so that the ground instead of the surrounding habitat or sky is reflected, (3) installation of one-way film that results in opaque or translucent covering when viewed from either side of the glass, (4) installation of a uniformly dense dot pattern created as ceramic frit on both sides of the glass, and/or (5) installation of a striped or grid pattern of clear ultraviolet-reflecting and ultraviolet-absorbing film applied to both sides of the glass. It should be noted that single decals (e.g., falcon silhouettes or large eye patterns) are ineffective and are not recommended unless the entire glass surface is uniformly covered with the objects or patterns.

MM BIO-3 Bat Preconstruction Survey

- To avoid disturbance of special-status bat species during maternity season (approximately March through September), a preconstruction roosting bat survey shall be conducted by a qualified bat biologist of potential roost habitat, structures, and mature vegetation identified by the bat biologist no more than 30 days prior to initiation of construction activities if construction activities must occur during the roosting season. A passive acoustic survey shall identify the species using the area for day/night roosting.
- If special-status roosting bats are present and their roost would be impacted, a qualified bat biologist shall prepare a plan to identify the proper exclusionary methods, which may include the installation of bat deterrent devices, to passively exclude roosting bats from any structures in the work areas. Implementation of proper exclusionary methods shall be overseen by the bat biologist. If it is determined that an active maternity roost is present, the roost shall not be disturbed during the breeding season (approximately March through September). If it is determined to not be an active maternity roost, the tree or structure may be removed under the guidance of the qualified bat biologist.
- Removal of mature trees shall occur as close to sunset as feasible to allow potential roosting bats to escape during their natural emergence times. Tree removals shall be monitored by a qualified bat biologist and shall occur by pushing down the entire tree (without trimming or limb removal) using heavy equipment and leaving the felled tree on the ground untrimmed and undisturbed for a period of at least 24 hours.

Significance After Mitigation

Implementation of **Mitigation Measures MM BIO-1, MM BIO-2, and MM BIO-3** would reduce potential impacts to candidate, sensitive, or special-status species to a less than significant level by minimizing the potential for project construction to result in adverse effects to nesting birds and roosting bats.

Threshold b: Would the proposed project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Impact BIO-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT HAVE A SUBSTANTIAL ADVERSE EFFECT ON RIPARIAN HABITAT OR OTHER SENSITIVE NATURAL COMMUNITIES. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site is landscaped and/or developed (e.g., open recreational field, cell towers, surface parking, roadways, hardscape) and does not contain any riparian habitat or other sensitive natural communities. In addition, no sensitive natural communities are present adjacent to these areas that could be indirectly affected by the proposed project. Therefore, the proposed project would not have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by CDFW or USFWS. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold c: Would the proposed project have a substantial adverse effect on State or federally protected wetlands (including but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

Impact BIO-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT HAVE A SUBSTANTIAL ADVERSE EFFECT ON STATE OR FEDERALLY PROTECTED WETLANDS THROUGH DIRECT REMOVAL, FILLING, HYDROLOGICAL INTERRUPTION, OR OTHER MEANS. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site does not contain any State or federally protected wetlands. As noted in Section 4.4.2, *Existing Conditions*, the Gage Canal is immediately adjacent to the proposed location of the STEM Education Center and T-Mobile Cell Tower Relocation Area. The Gage Canal also traverses below the associated improvements area and a portion of the proposed electrical feeder line upgrade alignment. However, the proposed electrical feeder line upgrade and any replacement/relocated water utility lines would be installed below the canal via trenchless methods and thus would avoid the potential for direct and indirect effects to the Gage Canal. Therefore, the proposed project would not have a substantial adverse effect on State or federally protected wetlands (including but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means. Additionally, as described in Section 4.10, *Hydrology and Water Quality*, the proposed project would be required to comply with the National Pollutant Discharge Elimination System Construction General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities, which requires the development and implementation of a Stormwater Pollution Prevention Plan to help identify the sources of sediment and other pollutants that could affect the quality of stormwater discharges and to describe and ensure the implementation of best management practices to reduce or eliminate sediment and

other pollutants in stormwater as well as non-stormwater discharges resulting from construction activity. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold d: Would the proposed project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Impact BIO-4 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT INTERFERE SUBSTANTIALLY WITH THE MOVEMENT OF ANY NATIVE RESIDENT OR MIGRATORY FISH OR WILDLIFE SPECIES OR WITH ESTABLISHED NATIVE RESIDENT OR MIGRATORY WILDLIFE CORRIDORS, OR IMPEDE THE USE OF NATIVE WILDLIFE NURSERY SITES. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site is located within an urbanized area in the northeastern portion of the City, surrounded by existing development and thus do not provide regional connections to open space areas in the City (e.g., Box Springs Mountains, Sycamore Canyon Wilderness Park). Under existing conditions, the project site is routinely disturbed by human activity, including recreational activities and vehicular traffic, that reduces the potential for these areas to be utilized for local wildlife movement. In addition, although the Gage Canal may provide opportunities for local wildlife movement, it is located underground in the vicinity of the project site and would not be modified by the proposed project. Furthermore, no native wildlife nursery sites are located in these areas. As a result, construction and operation of the proposed project would not interfere substantially with the movement of native wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold e: Would the proposed project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Impact BIO-5 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CONFLICT WITH LOCAL POLICIES OR ORDINANCES PROTECTING BIOLOGICAL RESOURCES. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

UCR is part of the University of California, a constitutionally created unit of the State of California. As a State entity, UCR is not subject to municipal plans, policies, or regulations such as county and city general plans or local ordinances. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094. Therefore, this analysis focuses on the proposed project's potential to conflict with applicable UC and UCR policies and the City's General Plan policies and zoning regulations.

The project site contains trees that may be removed as a result of the proposed project. The proposed project would comply with the Tree Preservation and Replacement Guidelines, which include applicable tree replacement requirements for the removal of specified trees. Therefore, the proposed project would not conflict with the Tree Preservation and Replacement Guidelines.

As discussed under Impacts BIO-1 through BIO-4, the proposed project would not result in significant impacts to significant habitat and environmentally sensitive areas, native plant communities, riparian areas, vernal pools, important watershed areas (such as those related to the Santa Ana River), or wildlife movement corridors. As such, the proposed project would be consistent with the policies of Objectives OS-5 and OS-6 of the City's General Plan Open Space and Conservation Element related to these resources. In addition, as indicated under Impact BIO-6, the proposed project would not conflict with the provisions of the MSHCP and thus would not conflict with the policies of Objectives OS-5 and OS-6 of the City's General Plan Open Space and Conservation Element related to compliance with the MSHCP requirements (City of Riverside 2012). There are no City zoning regulations protecting biological resources that would be applicable to the proposed project. RUSD would be required to comply with all relevant noticing requirements for tree removal on the project site pursuant to Riverside Municipal Code Chapter 13.06.

In summary, the proposed project would not conflict with local policies or ordinances protecting biological resources, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold f: Would the proposed project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan?

Impact BIO-6 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CONFLICT WITH THE PROVISIONS OF AN ADOPTED HCP, NATURAL COMMUNITY CONSERVATION PLAN, OR OTHER APPROVED HCP. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site is located within the boundaries of the MSHCP. However, UCR is not a permittee to the MSHCP and therefore is not subject to the conservation efforts established in the plan. Nonetheless, the following analysis discusses how the proposed project complies with the MSHCP.

The project site is not located within a drainage feature or riparian or riverine areas; thus, the proposed project would not conflict with Section 6.1.2 of the MSHCP. The project site is not located within a predetermined Survey Area for the MSHCP criteria area species, mammals, amphibians, or narrow endemic plant species; thus, the proposed project does not conflict with Sections 6.1.3 and 6.3.2 of the MSHCP. The project site is not located adjacent to an existing or proposed MSHCP Conservation area; thus, the proposed project is not subject to the MSHCP Urban/Wildlands Interface Guidelines and would not conflict with Section 6.1.4 of the MSHCP. Therefore, the proposed project would not conflict with the provisions of the MSHCP or other approved Natural Community Conservation Plan or local, regional, or State HCP. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.4.5 Cumulative Impacts

The following factors are considered with respect to analyzing cumulative impacts to biological resources:

- The cumulative contribution of other approved and proposed projects to fragmentation of open space in the project vicinity
- The loss of sensitive habitats and species
- The contribution of the project to urban expansion into natural areas
- Isolation of open space in the vicinity by proposed/future projects

Over the last half-century or more, naturally vegetated open areas have diminished as the landscape surrounding the UCR campus has been built out with residential, educational, and commercial uses. Similar to the proposed project, other developments would also be required to comply with all applicable laws and regulations governing biological resources regarding cumulative impacts, including the Western Riverside County MSHCP. Individual development proposals in the region are reviewed separately by the appropriate jurisdiction and undergo appropriate environmental review when it is determined that the potential for significant impacts exists. If

future projects would result in impacts to sensitive biological resources, impacts to such resources would be addressed on a case-by-case basis. It is anticipated that for other developments that would have significant impacts on these resources, mitigation measures such as preconstruction surveys would be required. Nevertheless, this analysis conservatively assumes that cumulative impacts to biological resources are potentially **significant**.

The proposed project would be constructed in an existing urban area that is highly developed. The project site is already developed with landscaped areas and other hardscaping. The project's contribution to cumulative impacts to special-status species would be cumulatively considerable without mitigation (Impact BIO-1). However, implementation of **Mitigation Measures MM BIO-1, MM BIO-2, and MM BIO-3** would reduce direct and indirect impacts to special-status wildlife to less than significant and thus **not cumulatively considerable with mitigation incorporated**.

Furthermore, the proposed project would have less-than-significant impacts to riparian habitat, sensitive natural communities, State and federally protected wetlands, wildlife movement, local policies and ordinances protecting biological resources, and adopted HCPs and Natural Community Conservation Plans and would have low potential to contribute to significant cumulative impacts to biological resources given the urbanized nature of the project site and its surroundings. Therefore, the project's contribution to cumulative impacts to riparian habitat, sensitive natural communities, State and federally protected wetlands, wildlife movement, local policies and ordinances protecting biological resources, and adopted HCPs and Natural Community Conservation Plans would **not be cumulatively considerable (less than significant)**.

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4.5 Cultural Resources

4.5.1 Introduction

This section analyzes potential impacts to cultural resources from implementation of the proposed project. The analysis in this section considers historical and archeological resources as well as human remains and is based, in part, on a Cultural Resources Assessment prepared for the RUSD STEM Education Center Project by Rincon Consultants, Inc. in August 2023. The full analysis is provided in Appendix E of this EIR.

4.5.2 Existing Conditions

Regional Setting

Indigenous History

PREHISTORY

During the 20th century, many archaeologists developed chronological sequences to explain prehistoric cultural changes in all or portions of southern California (cf. Jones and Klar 2007; Moratto 1984). Wallace (1955 and 1978) devised a prehistoric chronology for the southern California region based on early studies and focused on data synthesis that included four horizons: Early Man, Milling Stone, Intermediate, and Late Prehistoric. Though initially lacking the chronological precision of absolute dates (Moratto 1984: 159), Wallace's (1955) synthesis has been modified and improved using thousands of radiocarbon dates obtained by southern California researchers over recent decades (Byrd and Raab 2007: 217; Koerper and Drover 1983; Koerper et al. 2002;). The composite prehistoric chronological sequence for southern California is based on Wallace (1955), Warren (1968), and later studies including Koerper and Drover (1983).

EARLY MAN HORIZON (CIRCA 10,000 TO 6,000 BCE)

Numerous pre-8,000 Before Common Era (BCE) sites have been identified along the mainland coast and Channel Islands of southern California (cf. Erlandson 1991; Johnson 2002; Jones and Klar 2007; Moratto 1984; Rick et al. 2001: 609). The Arlington Springs site on Santa Rosa Island produced human femurs dated to approximately 13,000 years ago (Arnold et al. 2004; Johnson 2002). On nearby San Miguel Island, human occupation at Daisy Cave (CA-SMI-261) has been dated to nearly 13,000 years ago and included basketry greater than 12,000 years old, the earliest on the Pacific Coast (Arnold et al. 2004).

Although few Clovis- or Folsom-style fluted points have been found in southern California (e.g., Dillon 2002; Erlandson et al. 1987), Early Man Horizon sites are generally associated with a greater emphasis on hunting than later horizons. Recent data indicate the Early Man economy was a diverse mixture of hunting and gathering, including a significant focus on aquatic resources in coastal areas (e.g., Jones et al. 2002) and on inland Pleistocene lakeshores (Moratto 1984). A warm and dry 3,000-year period called the Altithermal began around 6,000 BCE. The conditions of the Altithermal are likely responsible for the change in human subsistence patterns at this time, including a greater emphasis on plant foods and small game.

MILLING STONE HORIZON (6,000 TO 3,000 BCE)

The Milling Stone Horizon is defined as “marked by extensive use of milling stones and mullers, a general lack of well-made projectile points, and burials with rock cairns” (Wallace 1955: 219). The dominance of such artifact types indicates a subsistence strategy oriented around collecting plant foods and small animals. A broad spectrum of food resources was consumed, including small and large terrestrial mammals, sea mammals, birds, shellfish and other littoral and estuarine species, near-shore fishes, yucca, agave, and seeds and other plant products (Kowta 1969; Reinman 1964). Variability in artifact collections over time and from the coast to inland sites indicates that Milling Stone Horizon subsistence strategies adapted to environmental conditions (Byrd and Raab 2007: 220). Locally available tool stone dominates lithic artifacts associated with Milling Stone Horizon sites; ground stone tools, such as manos and metates, and chopping, scraping, and cutting tools, are common. Kowta (1969) attributes the presence of numerous scraper-plane tools in Milling Stone Horizon collections to the processing of agave or yucca for food or fiber. The mortar and pestle, associated with acorns or other foods processed through pounding, were first used during the Milling Stone Horizon and increased dramatically in later periods (Wallace 1955 and 1978; Warren 1968).

Two types of artifacts considered diagnostic of the Milling Stone period are the cogged stone and discoidal, most of which have been found on sites dating between 4,000 and 1,000 BCE (Moratto 1984: 149), although possibly as far back as 5,500 BCE (Couch et al. 2009). The cogged stone is a ground stone object that has gear-like teeth on the perimeter and is produced from a variety of materials. The function of cogged stones is unknown, but many scholars have postulated ritualistic or ceremonial uses (Eberhart 1961: 367), based on the materials used and their location near to burials and other established ceremonial artifacts as compared to typical habitation archaeological sites. Similar to cogged stones, discoidals are found in the archaeological record subsequent to the introduction of the cogged stone. Cogged stones and discoidals were often buried purposefully, or “cached.” They are most common in sites along the coastal drainages from southern Ventura County southward and are particularly abundant at some Orange County sites, although a few specimens have been found inland as far east as Cajon Pass (Moratto 1984: 149). Cogged stones have been collected in Riverside County, and their distribution appears to center on the Santa Ana River basin (Eberhart 1961).

INTERMEDIATE HORIZON (3,000 BCE TO CE 500)

Wallace’s Intermediate Horizon dates from approximately 3,000 BCE – Common Era (CE) 500 and is characterized by a shift toward a hunting and maritime subsistence strategy as well as greater use of plant foods. During the Intermediate Horizon, a noticeable trend occurred toward greater adaptation to local resources including a broad variety of fish, land mammal, and sea mammal remains along the coast. Tool kits for hunting, fishing, and processing food and materials reflect this increased diversity, with flake scrapers, drills, various projectile points, and shell fishhooks being manufactured.

Mortars and pestles became more common during this transitional period, gradually replacing manos and metates as the dominant milling equipment. Many archaeologists believe this change in milling stones signals a change from the processing and consuming of hard seed resources to an increasing reliance on acorn (cf. Glassow et al. 1988; True 1993). Mortuary practices during the Intermediate Horizon typically included fully flexed burials oriented toward the north or west (Warren 1968: 2-3).

LATE PREHISTORIC HORIZON (CE 500 TO HISTORIC CONTACT)

During Wallace's (1955 and 1978) Late Prehistoric Horizon, the diversity of plant food resources and land and sea mammal hunting increased even further than during the Intermediate Horizon. More classes of artifacts were observed during this period, and high quality exotic lithic materials were used for small finely-worked projectile points associated with the bow and arrow. Steatite containers were made for cooking and storage, and an increased use of asphalt for waterproofing is noted. More artistic artifacts were recovered from Late Prehistoric sites, where cremation became a common mortuary custom. Larger, more permanent villages supported an increased population size and social structure (Wallace 1955: 223).

Post-Contact Setting

Post-European contact history for the state of California is generally divided into three periods: the Spanish Period (1769 to 1822), the Mexican Period (1822 to 1848), and the American Period (1848 to present).

SPANISH PERIOD (1769 TO 1822)

Spanish exploration of what was then known as Alta (upper) California began when Juan Rodriguez Cabrillo led the first European expedition into the region in 1542. For more than 200 years after his initial expedition, Spanish, Portuguese, British, and Russian explorers sailed the Alta California coast and made limited inland expeditions, but they did not establish permanent settlements (Bean 1968; Rolle 2003). Spanish entry into what was to become Riverside County did not occur until 1774 when Juan Bautista de Anza led an expedition from Sonora, Mexico to Monterey in northern California (Lech 1998).

In 1769, Gaspar de Portolá and Franciscan Father Junipero Serra established the first Spanish settlement at Mission San Diego de Alcalá. This was the first of 21 missions erected by the Spanish between 1769 and 1823. The establishment of the missions marks the first sustained occupation of Alta California by the Spanish. In addition to the missions, four presidios and three pueblos (towns) were established throughout the State (State Lands Commission 1982).

During this period, Spain also deeded ranchos to prominent citizens and soldiers, though very few in comparison to the subsequent Mexican Period. To manage and expand their herds of cattle on these large ranchos, colonists enlisted the labor of the surrounding Native American population (Engelhardt 1927a). The missions were responsible for administering the local Indians as well as converting the population to Christianity (Engelhardt 1927b). The influx of European settlers brought the local Native American population in contact with European diseases against which they had no immunity, resulting in a catastrophic reduction in native populations throughout the State (McCawley 1996).

MEXICAN PERIOD (1822 TO 1848)

The Mexican Period commenced when news of the success of the Mexican War of Independence (1810 to 1821) reached California in 1822. This period saw the federalization of mission lands in California with the passage of the Secularization Act of 1833. This Act enabled Mexican governors in California to distribute former mission lands to individuals in the form of land grants. Successive Mexican governors made more than 700 land grants between 1822 and 1846, putting most of the State's lands into private ownership for the first time (Shumway 2007). About 15 land grants (ranchos) were located in Riverside County. The nearest rancho, Rancho Jurupa, included the

western portion of the City of Riverside (City), and was located approximately one mile west of the project site (Shumway 2007).

AMERICAN PERIOD (1848 TO PRESENT)

The American Period officially began with the signing of the Treaty of Guadalupe Hidalgo in 1848, in which the United States agreed to pay Mexico \$15 million for ceded territory, including the modern states of California, Nevada, Utah, and parts of Colorado, Arizona, New Mexico, and Wyoming, and to pay an additional \$3.25 million to settle American citizens' claims against Mexico. Settlement of southern California increased dramatically in the early American Period. Many ranchos in Riverside County were sold or otherwise acquired by Americans, and most were subdivided into agricultural parcels or towns.

The discovery of gold in northern California in 1848 led to the California Gold Rush, despite the first California gold being previously discovered in southern California at Placerita Canyon in 1842 (Guinn 1976; Workman 1935:26). Southern California remained dominated by cattle ranches in the early American period, although droughts and increasing population resulted in farming and more urban professions supplanting ranching through the late nineteenth century. In 1850, California was admitted into the United States, and by 1853, the population of California exceeded 300,000. Thousands of settlers and immigrants continued to move into the State, particularly after completion of the transcontinental railroad in 1869.

Historic UCR Setting

This section outlines the historic-era setting for UCR's extant facilities, campus, and vicinity, as provided in UCR's 2021 Long Range Development (LRDP) Environmental Impact Report (EIR). This section focuses on the historic-era setting of UCR rather than RUSD because the project site has been historically linked to the UCR campus. However, a brief history of RUSD is provided in the following subsection for informational purposes.

To provide a contextual framework for assessments of UCR properties, the historic setting and context provided in the LRDP EIR was divided chronologically and according to significant themes. This context identifies important themes and milestones that are reflected in the built environment at UCR (UCR 2021).

Given UCR's history and built environment, the contexts and themes that apply to the campus include the following four contexts, along with themes and subthemes (UCR 2021):

- Context #1: Early Settlement and Development in Riverside
Theme: Citrus Industry and Citriculture in Riverside
Subtheme: The UCR Citrus Experiment Station
- Context #2: Riverside's Postwar Boom, 1945-1975
Theme: Postwar Institutional Expansion in Riverside
Subtheme: Founding of UCR
- Context #3: Social and Cultural Development, 1954-1975
Theme: Civil Rights Movement and Student Activism at UCR, 1960-1975
Theme: Initiatives in Cultural Diversity, Ethnic Studies, and Student Support
- Context #4: Architecture and Design, 1916-1975
Theme: Mission Revival/Spanish Colonial Revival style
Theme: Mid-Century Modernism in Riverside

Context Theme #2: Riverside's Postwar Boom, 1945-1975 is the applicable context for the project site.

CONTEXT #2: RIVERSIDE'S POSTWAR BOOM, 1945-1975

THEME: POSTWAR INSTITUTIONAL EXPANSION IN RIVERSIDE

SUBTHEME: FOUNDING OF THE UNIVERSITY OF CALIFORNIA, RIVERSIDE, 1954-1975

In the postwar period, the Citrus Experiment Station (the first development associated with UCR; now known as the Citrus Research Center and Agricultural Experiment Station) continued to expand its research mission as well as its faculty and facilities. In Riverside County and throughout Southern California, the shortage of university capacity and higher education opportunities had reached acute levels. The population boom as well as the influx of returning G.I.s, ready and able to study under the American G.I. Bill, tested these limits (UCR 2021).

For the UC system, the postwar years strained already overburdened schools. In 1944, U.S. President Franklin D. Roosevelt established the Servicemen's Readjustment Act, commonly known as the G.I. Bill of Rights. One major component of this bill was a stipend for college tuition (UCR 2021):

[The bill] gives servicemen and women the opportunity of resuming their education or technical training after discharge, or of taking a refresher or retrainer course, not only without tuition charges up to \$500 per school year, but with the right to receive a monthly living allowance while pursuing their studies.

The bill funded 7.8 million veterans in total, with many of them enrolled in higher education programs in California. Four hundred universities and colleges in California were approved for the program, with over 50 percent of veterans attending 50 of the approved schools. The presence of the Citrus Experiment Station provided a logical location for a new university; its expansion to a satellite College of Letters and Sciences of the UC system also reflected a broad expansion of institutions/educational facilities throughout the City (UCR 2021).

This founding of the College of Letters and Sciences in the City was significant, not only for the City but also for the region and State. Throughout California's institutions of higher learning, demand far outpaced availability in the postwar period. The problem was even more severe in the Inland Empire, with only a small handful of four-year universities in the extended region. A new four-year, research-focused university affiliated with the UC system was a significant step toward answering the increased demand for higher education (UCR 2021).

Given the level of growth and expansion in the City itself, the community came together in the postwar period to form the "Citizens University Committee," a booster group that brought together members of the Chamber of Commerce, local teachers, political organizations, and Riverside citizens, in order to advocate for expanded higher-education offerings in the City. The group worked to convince the Regents and State officials that the City should house a new campus. In 1948, California Governor (and future U.S. Supreme Court justice) Earl Warren granted \$2 million in funding for the new liberal arts college on the grounds surrounding the Citrus Experiment Station (UCR 2021).

In February 1954, as the new College of Letters and Sciences prepared to welcome students, the *Riverside Daily Press and Enterprise* published a special supplemental edition celebrating the new school. With messages from the presidents of universities and institutions throughout California—including Stanford University, the Henry E. Huntington Libraries, Pomona College, University of

Redlands, and Occidental College in Los Angeles—the supplement reflected the wider significance of a new four-year College of Letters and Sciences. In his message, Chief Justice Warren noted he had signed the original legislation for Riverside’s new university when he was California’s governor.

UCR’s opening also had great importance for the local community. At the time, Riverside County residents had only a few nearby universities to attend, such as The University of Redlands and Pomona College. In a community that had formed around the region’s citriculture economy, having a local university was invaluable (UCR 2021).

University of Redlands President George Armacost noted this belief, writing “We believe the opening of the College of Letters and Sciences on the University of California campus at Riverside will stimulate many young people from Riverside and San Bernardino counties to attend college who otherwise would neglect further educational training after high school. Having another institution of higher learning in our vicinity will stimulate a great interest in and appreciation of cultural activities” (UCR 2021).

In 1948, as noted above, Governor Earl Warren signed a \$2 million plan for a new, undergraduate liberal arts college in the City. The first UCR Provost, Gordon Watkins, established four divisions of the College of Letters and Sciences: Humanities, Social Sciences, Physical Sciences, and Life Sciences, and the college was born (UCR 2021).

Development of the main campus at UCR was initiated in 1952. Between 1953 and 1955, six new buildings were added to the campus, mostly situated north of the extant Horticulture Building. These buildings served the newly established UCR School of Agricultural Sciences. On February 15, 1954, the school officially opened with 65 faculty members and 127 students, as illustrated in a yearbook photograph and newspaper article from that year. During UCR’s first year, the college had a total of 127 enrolled students (as of 2022, student enrollment stood at approximately 26,800) (UCR 2021; UCR 2022).

Historic RUSD Setting

On July 1, 1963, RUSD was formed as a consolidation of three school districts that had been legal entities since the late 1800s (a high school district, Riverside Elementary District, and Highgrove Elementary District), in response to a statewide effort to reduce the number of school districts (First Carbon Solutions 2022). Over time, RUSD moved forward with the construction of new schools to further accommodate the transfer of students and foreseeable population growth, maintaining the cooperation between the City and RUSD that was integral in ensuring advantageous growth in the City as well as the neighborhood in which the proposed schools would be located (First Carbon Solutions 2022). Since its inception, RUSD has grown to serve nearly 40,000 students in preschool through 12th grade with 29 elementary schools, seven middle schools, five comprehensive high schools, seven alternative/specialty schools, and a grades 5-12 STEM school (RUSD 2022).

Campus and Project Site Setting

The project site is located in the City near the southwest corner of the intersection of Blaine Street and Canyon Crest Drive within a predominantly urbanized area. The proposed location of the STEM Education Center and the associated improvements area are currently used as an open recreational field with two baseball diamonds, surface parking, a Sprint Cell Tower, and a T-Mobile Cell Tower. The T-Mobile Cell Tower Relocation Area is located at the UCR Baseball Complex and consists of a landscaped area behind the outfield with maintained grass and trees. The utilities improvement alignment is located within the paved roadways of Canyon Crest Drive and Blaine Street.

Surrounding areas include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Interstate 215/State Route 60 (I-215/SR 60) freeway is located approximately 0.3 mile to the southwest, and the Box Spring Mountains are located approximately 1.2 miles to the east. Topography on the project site is relatively flat with elevations ranging from 1,020 to 1,030 feet above mean sea level. The project site is located in the Santa Ana River Watershed, which flows over 100 miles from the San Bernardino Mountains to the Pacific Ocean.

To characterize the extent of known cultural resources in the vicinity of the project site, a California Historical Resources Information System (CHRIS) records search of the project site and a one-mile radius around the project site was conducted at the Eastern Information Center (EIC) and a search of the Sacred Lands File (SLF) was conducted with the Native American Heritage Commission (NAHC). The EIC records search identified 55 previously recorded cultural resources within a one-mile radius of the project site, one of which is within the project site – the Gage Canal (Resource 33-004768).

A portion of the Gage Canal, a City of Riverside Landmark, is immediately adjacent to the proposed location of the STEM Education Center and T-Mobile Cell Tower Relocation Area. The Gage Canal also traverses below the associated improvements area and a portion of the proposed electrical feeder line upgrade alignment. The Gage Canal was recorded on May 11, 1992 by Robert J. Wlodarski. Wlodarski documented a portion of the Gage Canal where it crosses Pennsylvania Avenue. The Department of Parks and Recreation forms describe the Gage Canal and provides a brief historical background. The Gage Canal is a 20.13-mile canal beginning at the Santa Ana River and terminating at the Mockingbird Reservoir. It was developed by Irish immigrant, Matthew Gage, who sought to realize the value of his land holdings by introducing a water source for irrigation. Construction on the canal began in 1885. The first 12-mile section of the canal was completed in 1886, and a second 8-mile section was completed in 1888. The whole length of the canal was updated with a concrete lining in 1903. Observed features include, but are not limited to, cement-lined canal with headgates, diversion dams, levees, sand pumps, suction popes, transformers, receiving chambers, sluicing gates, temporary dams, division walls, and other common features associated with water-moving infrastructure. No artifacts or other resources were observed. The Department of Parks and Recreation Series 523 form (a form used for recording and evaluating potential historic sites and resources) was updated during a survey for the proposed installation of a fiber optic cable between Riverside and San Diego. The resource was not evaluated for the CRHR, and no California Historical Resources Status Code was assigned in the original record or in the update. However, the Gage Canal is a listed City of Riverside Landmark (Landmark #24) and is therefore a historical resource as defined in Section 15064.5(a) of the CEQA Guidelines. Although no evaluation documentation relating to its designation was identified as part of this study, the landmark listing notes that it is significant for its contributions as an important engineering feat that made the City's 1890s residential and agricultural boom possible (Appendix E). No other previously recorded cultural resources are within or adjacent to the project site. On April 19, 2022, the NAHC responded to UCR's SLF request, stating that the results of the SLF search were negative (Appendix E).

Rincon Archaeologist Andrea Ogaz conducted a pedestrian survey of the project site, T-Mobile Cell Tower Relocation Area, electrical feeder line upgrade alignment, and associated improvements area on September 16, 2022.¹ Rincon conducted a pedestrian survey of the project site, T-Mobile Cell Tower Relocation Area, and associated improvements area using transect intervals spaced 10 meters and oriented generally from north to south. Because the electrical feeder line upgrade alignment is a paved roadway and there is no ground exposure, the survey of this area was limited to a visual inspection of exposed ground. No cultural resources were observed within the project site during the pedestrian survey; the Gage Canal is underground and was not visible during the survey (Appendix E).

4.5.3 Regulatory Framework

Federal

National Register of Historic Places

Although the proposed project does not have a federal nexus, properties that are listed in or have been formally determined eligible for listing in the National Register of Historic Places (NRHP) are automatically listed in the California Register of Historic Resources (CRHR) and are thus considered historical resources for the purposes of CEQA as discussed in the following subsection. The following is therefore presented to provide applicable regulatory context. The NRHP was authorized by Section 101 of the National Historic Preservation Act and is the nation's official list of cultural resources worthy of preservation. The NRHP recognizes the quality of significance in American, State, and local history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects. Per 36 Code of Federal Regulations Part 60.4, a property is eligible for listing in the NRHP if it meets one or more of the following criteria:

- Criterion A:** Is associated with events that have made a significant contribution to the broad patterns of our history
- Criterion B:** Is associated with the lives of persons significant in our past
- Criterion C:** Embodies the distinctive characteristics of a type, period, or method of installation, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction
- Criterion D:** Has yielded, or may be likely to yield, information important in prehistory or history

In addition to meeting at least one of the above designation criteria, resources must also retain integrity. The National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity. To retain integrity, a property must possess several, if not all, of these seven qualities, defined as follows:

- Location:** The place where the historic property was constructed or the place where the historic event occurred
- Design:** The combination of elements that create the form, plan, space, structure, and style of a property
- Setting:** The physical environment of a historic property

¹ Because the sewer line extension alignment is located within a paved right-of-way with development conditions similar to the electrical feeder line upgrade alignment, the sewer line extension alignment was not surveyed.

- Materials:** The physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property
- Workmanship:** The physical evidence of the crafts of a particular culture or people during any given period in history or prehistory
- Feeling:** A property's expression of the aesthetic or historic sense of a particular period of time
- Association:** The direct link between an important historic event or person and a historic property

Certain properties are generally considered ineligible for listing in the NRHP, including cemeteries, birthplaces, graves of historical figures, properties owned by religious institutions, relocated structures, or commemorative properties. Additionally, a property must be at least 50 years of age to be eligible for listing in the NRHP. The National Park Service states 50 years is the general estimate of the time needed to develop the necessary historical perspective to evaluate significance (National Park Service 1997:41). Properties less than 50 years of age must be determined to have "exceptional importance" to be considered eligible for NRHP listing.

State

California Environmental Quality Act

California Public Resources Code (PRC) Section 21084.1 requires lead agencies determine if a project could have a significant impact on historical or unique archaeological resources. As defined in PRC Section 21084.1, a historical resource is a resource listed in, or determined eligible for listing in, the CRHR, a resource included in a local register of historical resources or identified in a historical resources survey pursuant to PRC Section 5024.1(g), or any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant. PRC Section 21084.1 also states resources meeting the above criteria are presumed to be historically or culturally significant unless the preponderance of evidence demonstrates otherwise. As mentioned previously, resources listed in the NRHP are automatically listed in the CRHR and are, therefore, historical resources under CEQA. Historical resources may include eligible built environment resources and archaeological resources of the precontact or historic periods.

CEQA Guidelines Section 15064.5(c) provides further guidance on the consideration of archaeological resources. If an archaeological resource does not qualify as a historical resource, it may meet the definition of a "unique archaeological resource" as identified in PRC Section 21083.2. PRC Section 21083.2(g) defines a unique archaeological resource as an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria: 1) it contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information; 2) it has a special and particular quality such as being the oldest of its type or the best available example of its type; or 3) it is directly associated with a scientifically recognized important prehistoric or historic event or person.

If an archaeological resource does not qualify as a historical or unique archaeological resource, the impacts of a project on those resources shall not be considered a significant effect on the environment and need not be considered further (CEQA Guidelines Section 15064.5[c][4]). CEQA Guidelines Section 15064.5 also provides guidance for addressing the potential presence of human remains, including those discovered during the implementation of a project.

According to CEQA, an impact that results in a substantial adverse change in the significance of a historical resource is considered a significant impact on the environment. A substantial adverse change could result from physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of the historical resource would be materially impaired (CEQA Guidelines Section 15064.5 [b][1]). Material impairment is defined as demolition or alteration in an adverse manner of those characteristics of a historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR or a local register (CEQA Guidelines Section 15064.5[b][2][A]).

If it can be demonstrated a project would cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that resources cannot be left undisturbed, mitigation measures are required (PRC Section 21083.2[a][b]).

Section 15126.4 of the CEQA Guidelines stipulates an EIR shall describe feasible measures to minimize significant adverse impacts. In addition to being fully enforceable, mitigation measures must be completed within a defined time period and be roughly proportional to the impacts of the project. Generally, a project that is found to comply with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings is considered to be mitigated below a level of significance (CEQA Guidelines Section 15126.4 [b][1]). For historical resources of an archaeological nature, lead agencies should also seek to avoid damaging effects where feasible. Preservation in place is the preferred manner to mitigate impacts to archaeological sites; however, data recovery through excavation may be the only option in certain instances (CEQA Guidelines Section 15126.4[b][3]).

California Register of Historical Resources

The CRHR was established in 1992 and codified by PRC Section 5024.1 and Title 14 California Code of Regulations Section 4852. The CRHR is an authoritative listing and guide to be used by State and local agencies, private groups, and citizens in identifying the existing historical resources of the State and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change (Public Resources Code Section 5024.1[a]). The criteria for eligibility for the CRHR are consistent with the NRHP criteria but have been modified for State use in order to include a range of historical resources that better reflect the history of California (Public Resources Code Section 5024.1[b]). However, unlike the NRHP, the CRHR does not have a defined age threshold for eligibility. Rather, a resource may be eligible for the CRHR if it can be demonstrated sufficient time has passed to understand its historical or architectural significance (California Office of Historic Preservation 2011). Furthermore, resources may still be eligible for listing in the CRHR even if they do not retain sufficient integrity for NRHP eligibility (California Office of Historic Preservation 2011). Generally, the California Office of Historic Preservation recommends resources over 45 years of age be recorded and evaluated for historical resources eligibility (California Office of Historic Preservation 1995:2).

A property is eligible for listing in the CRHR if it meets one or more of the following criteria:

- Criterion 1:** Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage
- Criterion 2:** Is associated with the lives of persons important to our past

Criterion 3: Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values

Criterion 4: Has yielded, or may be likely to yield, information important in prehistory or history

California Health and Safety Code Section 7050.5

Section 7050.5 of the California Health and Safety Code states that in the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the remains are discovered has determined if the remains are subject to the coroner's authority. If the human remains are of Native American origin, the coroner must notify the NAHC within 24 hours of this identification.

California Public Resources Code Section 5097.98

PRC Section 5097.98 states the NAHC, upon notification of the discovery of Native American human remains pursuant to Health and Safety Code Section 7050.5, shall immediately notify those persons (i.e., the Most Likely Descendant [MLD]) that it believes to be descended from the deceased. With permission of the landowner or a designated representative, the MLD may inspect the remains and any associated cultural materials and make recommendations for treatment or disposition of the remains and associated grave goods. The MLD shall provide recommendations or preferences for treatment of the remains and associated cultural materials within 48 hours of being granted access to the site.

Assembly Bill 275

Assembly Bill 275 was designed to strengthen the California Native American Graves Protection and Repatriation Act of 2001 by revising various definitions including, among others, "the definition of 'California Indian tribe' to include both a tribe that meets the federal definition of Indian tribe and a tribe that is not recognized by the federal government, but that is a native tribe located in California that is on the list maintained by the NAHC," as well as the "definition of 'museum' to specify it receives state funds." AB 275 requires every State agency, as defined, with significant interaction with tribal issues, peoples, or lands, and requests the Regents of the University of California, to designate one or more liaisons for the purpose of engaging in consultation with California Native American tribes on the tribal contact list and educating the agency on topics relevant to the State's relationship with those tribes. Assembly Bill 275 also revises and recasts the process by which a direct lineal descendent or a California Indian tribe can request the return of human remains or cultural items.

University of California, Riverside

UCR 2021 Long Range Development Plan

The 2021 LRDP is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP does not contain any objectives or policies related to archaeological or historic resources or human remains.

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of this EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code section 53094.

City of Riverside General Plan

LAND USE AND URBAN DESIGN ELEMENT

The City of Riverside's General Plan Land Use Element contains the following policy related to cultural resources (City of Riverside 2019):

Policy LU-4.6: Ensure protection of prehistoric resources through consultations with the Native American tribe(s) identified by the Native American Heritage Commission pursuant to Government Code Section 65352.3 and as required by CEQA.

HISTORIC PRESERVATION ELEMENT

The City of Riverside's General Plan Historic Preservation Element includes the objective of using historic preservation principles as an equal component in the planning and development process (Objective HP-1). The City expressed policy commitments to protect sites of archeological and paleontological significance and ensure compliance with all applicable State and federal cultural resources protection and management laws in its planning and project review process (City of Riverside 2012).

4.5.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Cultural Resources to assess the proposed project.

Would the proposed project:

- a. Cause a substantial adverse change in the significance of a historical resource pursuant to CEQA Guidelines Section 15064.5?
- b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5?
- c. Disturb any human remains, including those interred outside of dedicated cemeteries?

Methodology

To evaluate the potential impacts of the proposed project on archaeological and historical resources, the proposed project was analyzed according to known and potential eligible cultural resources. The impact analysis also considers the potential for previously undocumented resources, including human remains. The analysis of cultural resources impacts is based on the Cultural

Resource Assessment conducted by Rincon in 2022 for the proposed project (Appendix E). Section 4.18, *Tribal Cultural Resources*, provides further details regarding archaeological resources and cultural resources of potential Native American origin.

For purposes of the impact discussion, Threshold a broadly refers to historical resources. To differentiate between archaeological resources more clearly and built environment resources, analysis under Threshold a has been limited to built environment resources. Archaeological resources, including those that may be considered historical resources pursuant to CEQA Guidelines Section 15064.5 and those that may be considered unique archaeological resources pursuant to PRC Section 21083.2, are considered under Threshold b.

Direct impacts can be assessed by identifying the types and locations of proposed development, determining the exact locations of cultural resources within the project site, assessing the significance of the resources that may be affected, and determining the appropriate mitigation. Removal, demolition, or alteration of historical resources can permanently impact the historic fabric of an archaeological site, structure, or historic district.

A project with an effect that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment (CEQA Guidelines Section 15064.5[b]). Section 15064.5 of the CEQA Guidelines defines “substantial adverse change” as physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of the resource would be materially impaired. Material impairment includes changes to the physical characteristics that make a historical resource eligible for listing in the CRHR such that the resource would no longer be eligible for the NRHP, CRHR, or local historical registers (CEQA Guidelines Section 15064.5[b][2]).

PRC Section 21083.2 defines “unique archaeological resource” as an archeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets one or more of the following CRHR-related criteria: (1) it contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information; (2) it has a special and particular quality, such as being the oldest of its type or the best available example of its type; or (3) it is directly associated with a scientifically recognized important prehistoric or historic event or person. An impact on a “non-unique resource” is not a significant environmental impact under CEQA (CEQA Guidelines Section 15064.5[c][4]). If an archaeological resource qualifies as a resource under CRHR criteria, then the resource is treated as a unique archaeological resource for the purposes of CEQA.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project cause a substantial adverse change in the significance of a historical resource pursuant to CEQA Guidelines Section 15064.5?

IMPACT CUL-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CAUSE A SUBSTANTIAL ADVERSE CHANGE IN THE SIGNIFICANCE OF A HISTORICAL RESOURCE PURSUANT TO CEQA GUIDELINES SECTION 15064.5. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As detailed in Section 4.5.2, *Existing Conditions*, the project site contains one historical resource, the Gage Canal (Resource 33-004768), which is a designated City of Riverside Landmark (Landmark #24). A portion of the Gage Canal is immediately adjacent to the proposed location of the STEM Education Center and T-Mobile Cell Tower Relocation Area. The Gage Canal also traverses below the

associated improvements area and a portion of the proposed electrical feeder line upgrade alignment. The Gage Canal is significant for its contributions to the successful settlement and agricultural development of Riverside. Its character-defining features, or those physical features which convey the significance of the resource, can generally be characterized as its channelized and linear form. However, the segment within the project site is completely underground and exhibits a general lack of visible character-defining features (Appendix E).

In consideration of impacts to the historical resource, Section 15064.5(b) of the CEQA Guidelines state a significant impact would occur if the resource were materially impaired, which is defined as the demolition or alteration “in an adverse manner [of] those characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the California Register.” The proposed project does not include any direct physical changes to the Gage Canal and would not result in the physical demolition, destruction, relocation, or alteration of the historical resource such that its significance would be materially impaired. The proposed aboveground work over the Gage Canal would be limited to the removal of existing bleachers, lighting, and the baseball diamond and installation of replacement landscaping, which would not involve the use of heavy equipment that could result in damage to the historical resource. In addition, the removal of these structures would result in less activity directly above the Gage Canal.

The proposed electrical feeder line upgrade and any replacement/relocated water utility lines crossing the Gage Canal would be installed below the canal via trenchless methods (Appendix E). Furthermore, as indicated in Section 4.13, *Noise*, the proposed project would not include activities associated with substantial ground-borne vibration that could impact the Gage Canal, such as pile driving or blasting. Proposed work adjacent to the Gage Canal, including development of the STEM Education Center and the relocation of the T-Mobile cell tower, also would not alter the essential form and integrity of the historical resource or alter important views of visual relationships of the historical resource, which would retain its current linear and channelized character. Changes to the setting, or the physical environment of the historical resource, resulting from the proposed project would be consistent with changes in setting that have occurred since the Gage Canal was constructed, including residential and commercial development within the area. As such, the canal’s setting and overall relationship to the surrounding environment would remain unchanged (Appendix E). Therefore, the proposed project would not cause a substantial adverse change in the significance of a historical resource pursuant to CEQA Guidelines Section 15064.5 and would not conflict with the City’s General Plan Objective HP-1. Impacts would be **less than significant**, and no mitigation measures would be required.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5?

IMPACT CUL-2 IMPLEMENTATION OF THE PROPOSED PROJECT MAY CAUSE A SUBSTANTIAL ADVERSE CHANGE IN THE SIGNIFICANCE OF AN ARCHAEOLOGICAL RESOURCE PURSUANT TO CEQA GUIDELINES SECTION 15064.5. IMPLEMENTATION OF MITIGATION MEASURE MM CUL-1 WOULD BE REQUIRED TO REDUCE IMPACTS TO LESS THAN SIGNIFICANT.

As noted in Section 4.5.2, *Existing Conditions*, the CHRIS records and background search identified 55 previously recorded cultural resources within a one-mile radius of the project site. Of these resources, one historical built environment resource, the Gage Canal, is adjacent to the location of the proposed STEM Education Center and T-Mobile Cell Tower Relocation Area, and traverses below the associated improvements area and a portion of the electrical feeder line upgrade alignment (refer to Appendix E for further details regarding the CHRIS record search results).

Grading and excavation for the project site is expected to reach approximately six feet below the ground. The T-Mobile Cell Tower Relocation Area would require excavations to secure the relocated cell tower, and trenching would be required for installation of the proposed utilities improvements. The project site has been previously disturbed from the construction, use, and maintenance of the baseball fields, UCR Baseball Complex, cell towers, hardscape, landscape, and roadways. The Cultural Resources Assessment conducted for the proposed project did not identify any archaeological resources or archaeological deposits on the project site. The absence of substantial prehistoric or historic-period archaeological remains within the immediate vicinity, along with the existing level of disturbance, suggests there is a low potential for encountering intact subsurface archaeological deposits. However, there is always a possibility that unknown buried archaeological resources that may be considered important examples of California history or prehistory could be encountered during project-related ground disturbance (Appendix E). Therefore, implementation of the proposed project may cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5, and impacts would be potentially significant without mitigation. Implementation of Mitigation Measure **MM CUL-1** would reduce potential impacts to **less than significant with mitigation incorporated** by requiring implementation of appropriate handling and treatment procedures in the event of an unanticipated discovery of cultural resources during construction activities.

Mitigation Measure

The following mitigation measure would be required to address potential impacts to archaeological resources.

MM CUL-1 Unanticipated Discovery of Archaeological Resources

If previously undiscovered archaeological resources are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and the find shall be evaluated by a qualified archaeologist meeting the Secretary of the Interior standards to determine whether it is a unique archaeological resource, as defined by CEQA. If the find is not a unique archaeological resource, work may resume. If the find is determined to be a unique archaeological resource, the archaeologist shall make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of

mitigation for impacts to archaeological resources. If UCR determines that preservation in place is not feasible, the archaeologist shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.

Significance After Mitigation

Implementation of **Mitigation Measure MM CUL-1** would reduce potential impacts to cultural resources to a less than significant level by minimizing the potential for project construction to result in adverse effects to archaeological resources.

Threshold c: Would the proposed project disturb any human remains, including those interred outside of dedicated cemeteries?

IMPACT CUL-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT DISTURB ANY HUMAN REMAINS, INCLUDING THOSE INTERRED OUTSIDE OF DEDICATED CEMETERIES. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES ARE REQUIRED.

No human remains or dedicated cemeteries are known to be present within or near the project site (Appendix E). However, the discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, California Health and Safety Code Section 7050.5 states no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be of Native American origin, the Coroner will notify the NAHC, which will determine and notify an MLD. The procedures for the treatment of Native American human remains are contained in California Health and Safety Code Sections 7050.5 and 7052 and California PRC Section 5097. With adherence to existing regulations, the proposed project would not disturb any human remains, including those interred outside of dedicated cemeteries. Impacts would be **less than significant**, and no mitigation measures would be required.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.5.5 Cumulative Impacts

The proposed project, in conjunction with other nearby past, present, and reasonably foreseeable probable future projects in the region as discussed in Section 4, *Environmental Impact Analysis*, could adversely impact cultural resources. Cumulative development in the region would continue to disturb historical resources as well as areas with the potential to contain archaeological resources and human remains. For other developments that would have significant impacts on cultural resources, similar conditions and mitigation measures described herein would be imposed on those other developments consistent with the requirements of CEQA, along with requirements to comply

with all applicable laws and regulations governing said resources. Nevertheless, cumulative impacts to cultural resources would be potentially **significant**.

As indicated under Impact CUL-1, the proposed project would not directly or indirectly impact the Gage Canal, which is the only historical resource within the project site. As described under Impact CUL-2, the proposed project, in conjunction with cumulative projects in the vicinity of the project site, would result in significant cumulative impacts to unknown archaeological resources. However, the proposed project would implement **Mitigation Measure MM CUL-1** to ensure impacts to unknown resources are adequately mitigated through appropriate handling and treatment of unanticipated discoveries of cultural resources during construction activities. Similarly, cumulative projects are reviewed separately by the appropriate jurisdiction and undergo environmental review when it is determined the potential for significant impacts exists. In the event future cumulative projects would result in impacts to known or unknown archaeological resources, impacts to such resources would be addressed on a case-by-case basis, and would likely be subject to mitigation measures similar to those imposed for the proposed project. As such, after implementation of **Mitigation Measure MM CUL-1**, the proposed project's contribution **would not be cumulatively considerable (less than significant) with mitigation incorporated**.

The proposed project and cumulative projects discussed in Section 4, *Environmental Impact Analysis*, would involve ground-disturbing activities which could encounter human remains. If human remains are found, the proposed project and cumulative projects would be required to comply with the California Health and Safety Code Section 7050.5 and 7052 and PRC Section 5097.98, as described under Impact CUL-3. With adherence to existing regulations relating to human remains, cumulative impacts would be less than significant and the proposed project's impacts **would not be cumulatively considerable (less than significant)**.

4.5.6 References

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4.6 Energy

4.6.1 Introduction

This section describes existing energy resources in the project area and addresses the potential for implementation of the proposed project to result in wasteful, inefficient, or unnecessary consumption of energy resources during construction or operation and conflict with or obstruct an applicable plan for renewable energy or energy efficiency. The analysis in this section is based upon energy modeling outputs that are included in Appendix C.

4.6.2 Existing Conditions

Energy Fundamentals

Energy is generally transmitted either in the form of electricity, measured in kilowatts (kW) or megawatts (MW); natural gas, measured in British thermal units (BTU), cubic feet, or therms; or fuel (such as gasoline or diesel), measured in gallons or liters. Electricity is used primarily for lighting, appliances, cooking purposes, heating, ventilation, and air conditioning equipment, and other uses associated with building and vehicle operations. Electricity sources range from renewable (e.g., hydroelectric, solar, wind, geothermal, biomass) to nonrenewable (e.g., natural gas, oil, nuclear, coal). Natural gas is used primarily for space and water heating as well as cooking purposes and industrial processes. Natural gas is typically associated with building operations. Fuel is used primarily for powering on-road and off-road vehicles and equipment. Typical fuel types are diesel and gasoline.

Electricity Generation, Distribution, and Use

California

According to the California Energy Commission (CEC), California generated approximately 194,127 gigawatt-hours (GWh) of electricity in 2021. Approximately 50 percent of this electricity was sourced from natural gas, 35 percent from renewable sources, 6 percent from large hydroelectric sources, and the remaining 9 percent was sourced from coal, nuclear, oil, other and unspecified sources. Specifically, 33.6 percent of California's 2021 retail electric sales were served by renewable resources including wind, solar, geothermal, biomass, and small hydroelectric (CEC 2022a). Electricity is distributed through the various electric load-serving entities in California. These entities include investor-owned utilities, publicly owned load-serving entities, rural electric cooperatives, community choice aggregators, and electric service providers (CEC 2022a).

According to the U.S. Energy Information Administration (USEIA), total retail sale of electricity within California in 2021 was 247,250 GWh. California electricity consumption in 2021 represented approximately 6.5 percent of total U.S. electricity consumption in 2021 (USEIA 2022).

Riverside County

Riverside County (County) is serviced by two electrical utilities: Riverside Public Utilities (RPU) and Southern California Edison (SCE). The project site is located solely in the RPU service territory. Therefore, this discussion focuses on RPU.

According to the 2021 Power Content Label, which discloses power sources from retail electricity suppliers, RPU receives its energy from renewables, coal, large hydroelectric, natural gas, nuclear, and unspecified sources. Table 4.6-1 shows the breakdown of energy resources from RPU compared to California’s breakdown of energy sources. Both RPU’s General Power Mix and 100 Percent Renewable Energy Mix have a higher share of renewable energy compared to Statewide (RPU 2022). RPU has also reported that it was likely to achieve 44 percent renewable power mix by 2020. RPU does not offer customers, including UCR, the option to purchase 100 percent renewable-sourced electricity. In addition, there is no separate community choice aggregation available to UCR.

Table 4.6-1 RPU and California 2021 Power Mix

Source	RPU General Power Mix ¹	2021 California Power Mix ¹
Eligible Renewable Resources		
Biomass & Biowaste	0%	2%
Geothermal	29%	5%
Eligible Hydroelectric	0%	1%
Solar	11%	14%
Wind	3%	11%
Coal	28%	3%
Large Hydroelectric	1%	9%
Natural Gas	3%	38%
Nuclear	5%	9%
Other	0%	< 1%
Unspecified Sources of Power ²	19%	7%
Eligible Renewable Resources Percent of Power Mix	43%	34%
Non-Renewable Resources Percent of Power Mix	57%	66%
Total	100%	100%

¹ Percent of Total Power. Percentages are estimated annually by the CEC based on the electricity sold to California consumers during the identified year.

² “Unspecified sources of power” means electricity from open market transactions that are not traceable to specific generation sources.
 Source: RPU 2022

RPU provides electricity to many of the cities and entities throughout Riverside County, including UCR. As shown in Table 4.6-2, RPU provided approximately 2,114 GWh of electricity in 2021, which equates to approximately 6,670 kWh per capita.

Table 4.6-2 RPU Service Area 2021 Electricity Consumption

Consumption (kWh)	2021 Service Area Population	RPU Service Area Consumption Per Capita (kWh)
2,114,250,114	317,000	6,670

kWh = kilowatt hour

Sources: RPU 2022; CEC 2022a

Natural Gas Distribution and Use

California

According to the California Public Utilities Commission (CPUC), natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines that deliver out-of-state natural gas to California gas utilities are the Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Mojave Pipeline, and Tuscarora (CPUC 2022). Because natural gas is a dispatchable energy resource that provides load when the availability of hydroelectric power generation and/or other energy sources decreases, distribution varies greatly from year to year. The availability and distribution of hydroelectric-sourced energy, increasing renewable-source energy, and overall consumer demand shape the need for natural gas. In 2021, total California natural gas demand for industrial, residential, commercial, and electric power generation was 11,923 million therms per year.

Riverside County

The County, including UCR, is located within the natural gas utility service territory of Southern California Gas (SCG), which covers the majority of southern California. This discussion focuses on SCG natural gas distribution and use within the County. The County is serviced via SCG high-pressure distribution lines under roadways and transmission pipelines throughout the County. The high-pressure distribution lines operate at pressures above 60 pounds per square inch and deliver gas in smaller volumes to the lower pressure distribution system. Transmission lines are generally large-diameter pipelines that operate at pressures above 200 pounds per square inch and transport gas from supply points to the gas distribution system. As summarized in Table 4.6-3, development within the County consumed approximately 431 million therms of natural gas in 2021 (CEC 2022b). According to the California Department of Finance (DOF), the County’s population in 2021 was 2,424,587 persons (DOF 2022). As such, the County had a 2021 per capita natural gas consumption of approximately 178 therms.

Table 4.6-3 Riverside County 2021 Natural Gas Consumption

County Consumption (Therms)	County Population (2021)	County Consumption Per Capita (Therms)
430,843,598	2,424,587	178

Sources: DOF 2022; CEC 2022b

Fuel Distribution and Use

California

According to the 2015 CEC market share data, distributors of gasoline include companies or individuals who make the first distribution of gasoline in California. Aircraft manufacturers and certificated or licensed carriers by air may be included within the definition of distributor. Distributors can also be "brokers," which includes every person, other than a distributor or a retailer, who deals in lots of 200 or more gallons of gasoline (CEC 2015).

Based on the California Transportation of Petroleum Second Northern California Refinery Safety Forum, output from the refineries is usually placed in intermediate tanks before blending finished products. Most gasoline is shipped from refinery by pipeline, which serves over 60 distribution

terminals, which is then transported to retail and nonretail stations by tanker trucks (Schremp 2015).

The main category of fuel use in California is transportation fuel, specifically gasoline and diesel. Gasoline is the most used transportation fuel in California: 97 percent of all gasoline sold in California is consumed by light-duty cars, pickup trucks, and sport utility vehicles. In 2021, an estimated 11,618 million gallons of gasoline annually were used (i.e., 32 million gallons gasoline per day) (CEC 2022c). Diesel is the second largest transportation fuel used in California. Many heavy-duty-trucks, delivery vehicles, buses, trains, ships, boats and barges, farm, construction, and heavy-duty military vehicles and equipment have diesel engines. According to the 2021 California Annual Retail Fuel Outlet Report Results (CEC-A15), in 2021, 1,611 million gallons of diesel annually (i.e., 4.4 million gallons of diesel per day), including off-road diesel, was sold (CEC 2022d).

Riverside County

Gasoline is distributed throughout the County by retail and non-retail gas stations. In 2021, Riverside County had an estimated total of 572 retail gasoline stations (CEC 2022c). According to the California Annual Retail Fuel Outlet Report Results (CEC-A15), retail gasoline sales in Riverside County totaled approximately 981 million gallons, and retail diesel sales totaled approximately 146 million gallons in 2021 (CEC 2022c). County consumption of compressed natural gas is unknown. As shown in Table 4.6-4, average per capita gasoline consumption in the County is approximately 405 gallons, and average per capita diesel consumption in the County is approximately 60 gallons.

Table 4.6-4 Riverside County 2021 Gasoline and Diesel Consumption

Fuel Type	County Consumption (gallons per year)	County Population (2021)	County Per Capita Consumption (gallons)
Gasoline	981,000,000	2,424,587	405
Diesel	146,000,000	2,424,587	60

Sources: DOF 2022; CEC 2022c; CEC 2022d

Campus and Project Site Setting

UCR Main Campus

Total UCR main campus electricity use in 2018 was 118,960,675 kWh. Approximately 11,872,475 kWh is produced on campus through solar SunPower and used by UCR. Therefore, 107,088,200 kWh were purchased from RPU in 2018. In addition, non-UCR fleet/department vehicles traveling to and from the UCR main campus generated passenger vehicle miles traveled (VMT), some of which used electricity. Electricity consumed by vehicles accounted for 75,551 kWh of electricity consumption in 2018 (UCR 2021a).

In 2018, UCR collected energy activity data, measured in million British Thermal Unit (MMBtu), of natural gas used in facilities and buildings; gallons of diesel used for portable generators, heaters, etc.; and gallons of fuel used by the UCR vehicle fleet. UCR disaggregated the source data in order to provide activity data for solely the main campus. Total UCR main campus natural gas use in 2018 was 3,466,942 therms (UCR 2021a).

Total UCR main campus fuel use in 2018 was 263,120 gallons of diesel, 2,419,030 gallons of gasoline, and 129,447 gallon-equivalents of CNG (UCR 2021a).

Existing Energy Consumption

Existing energy consumption at the project site includes electricity usage for field lighting and the existing cell towers as well as fuel consumption by vehicles of users of the on-site recreational field. Maintenance of the existing recreational field also consumes energy from the use of landscaping equipment and conveyance of water for irrigation.

4.6.3 Regulatory Framework

Additional regulatory information related to energy efficiency standards is included throughout the other resource sections including Section 4.19, *Utilities and Service Systems*, which includes a discussion of water use efficiency standards, solid waste standards, and wastewater standards; Section 4.3, *Air Quality*, which includes a discussion of air quality-related regulations; and Section 4.8, *Greenhouse Gas Emissions*, which includes a discussion of greenhouse gas (GHG)-related regulations.

Federal

Energy Policy and Conservation Act

Enacted in 1975, the Energy Policy and Conservation Act legislation established fuel economy standards for new light-duty vehicles (autos, pickups, vans, and sport-utility vehicles). The law placed responsibility on the National Highway Traffic and Safety Administration (NHTSA), a part of the U.S. Department of Transportation (USDOT), for establishing and regularly updating vehicle standards. The U.S. Environmental Protection Agency (USEPA) administers the Corporate Average Fuel Economy (CAFE) program, which determines vehicle manufacturers' compliance with existing fuel economy standards. Since the inception of the program, the average fuel economy for new light-duty vehicles steadily increased from 13.1 miles per gallon (mpg) for the 1975 model year to 30.7 mpg for the 2014 model year and can increase to 54.5 mpg by 2025.

On August 2, 2018, the NHTSA and USEPA, operating under the direction of the Trump Administration, proposed the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule). This rule addresses emissions and fuel economy standards for motor vehicles and is separated in two parts as described below.

- Part One, "One National Program" (84 Federal Register 51310) revokes a waiver granted by USEPA to the State of California under Section 209 of the Clean Air Act to enforce more stringent emission standards for motor vehicles than those required by USEPA for the explicit purpose of GHG emission reduction, and indirectly, criteria air pollutants and ozone precursor emission reduction. This revocation became effective on November 26, 2019, potentially restricting the ability of the California Air Resources Board (CARB) to enforce more stringent GHG emission standards for new vehicles and set zero emission vehicle mandates in California.
- Part Two addresses CAFE standards for passenger cars and light trucks for model years 2021 to 2026. This rulemaking proposes new CAFE standards for model years 2022 through 2026 and would amend existing CAFE standards for model year 2021. The proposal would retain the model year 2020 standards (specifically, the footprint target curves for passenger cars and light trucks) through model year 2026. The proposal addressing CAFE standards was jointly developed by NHTSA and USEPA, with USEPA simultaneously proposing tailpipe carbon dioxide standards for the same vehicles covered by the same model years.

The USEPA and NHTSA published final rules to amend and establish national CO₂ and fuel economy standards on April 30, 2020 (Part Two of the SAFE Vehicles Rule) (85 Federal Register 24174). On April 22, 2021, the Biden Administration formally proposed to roll back portions of the SAFE Rule, thereby restoring California's right to enforce more stringent fuel efficiency standards (NHTSA 2022). Most recently, on December 21, 2021, the NHTSA finalized rules to repeal the SAFE I Rule. The final rule concludes the SAFE I Rule overstepped the agency's legal authority and established overly broad prohibitions that did not account for a variety of important State and local interests. The final rule ensures the SAFE I Rule will no longer form an improper barrier to states exploring creative solutions to address their local communities' environmental and public health challenges (NHTSA 2022).

It is, however, legally infeasible for individual agencies (in this case, the University of California [UC] system) to adopt more stringent fuel efficiency standards for commuter vehicles. The federal Clean Air Act (42 United States Code Section 7543[a]) states, "no state or any political subdivision therefore shall adopt or attempt to enforce any standard relating to the control of emissions from new motor vehicles or new motor vehicle engines subject to this part." Therefore, the University of California, Riverside abides by federal and State transportation fuel efficiency standards related to vehicles.

Construction Equipment Fuel Efficiency Standard

The USEPA sets emission standards for construction equipment. The first federal standards (Tier 1) were adopted in 1994 for all off-road engines over 50 horsepower (hp) and were phased in by 2000. A new standard was adopted in 1998 that introduced Tier 1 for all equipment below 50 hp and established the Tier 2 and Tier 3 standards. The Tier 2 and Tier 3 standards were phased in by 2008 for all equipment. The current iteration of emissions standards for construction equipment are the Tier 4 efficiency requirements are contained in 40 Code of Federal Regulations Parts 1039, 1065, and 1068 (originally adopted in 69 Federal Register 38958 [June 29, 2004], and most recently updated in 2014 [79 Federal Register 46356]). Emissions requirements for new off-road Tier 4 vehicles were to be completely phased in by the end of 2015.

Energy Independence and Security Act

The Energy Independence and Security Act of 2007 was designed to improve vehicle fuel economy and help reduce nationwide dependence on foreign oil. It expands the production of renewable fuels, reducing dependence on oil, and confronting global climate change. Specifically, it increases the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard by requiring fuel producers to use at least 36 billion gallons of biofuel in 2022 and reduces U.S. demand for oil by setting a national fuel economy standard of 35 mpg by 2020. The Act also sets energy efficiency standards for lighting (specifically light bulbs) and appliances. The proposed project would be required to install photosensors and energy-efficient lighting fixtures consistent with the requirements of 42 United States Code Section 17001 et seq.

U.S. Executive Order 13693 (Energy Independence and Security Act Expansion)

In March 2015, Executive Order (EO) 13693 *Planning for Federal Sustainability in the Next Decade* was signed into action. The goal of this EO is to expand on the Energy Independence and Security Act of 2007 and maintain federal leadership in sustainability and GHG emission reductions. The EO includes the following goals related to energy:

- 25 percent reduction in energy use intensity (as compared to 2015 baseline)
- 30 percent of electricity supply from renewable energy by 2025
- 25 percent of total building energy (electric and alternative energy) from renewable energy by 2025

Energy Star Program

In 1992, the USEPA introduced Energy Star® as a voluntary labeling program designed to identify and promote energy-efficient products to reduce GHG emissions. The program applies to major household appliances, lighting, computers, and building components such as windows, doors, roofs, and heating and cooling systems. Under this program, appliances that meet specification for maximum energy use established under the program are certified to display the Energy Star® label. In 1996, the USEPA joined with the United States Department of Energy to expand the program, which now also includes qualifying commercial and industrial buildings as well as homes.

State

California Energy Action Plan

The CEC, in collaboration with CPUC, is responsible for preparing the California Energy Action Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and maintenance of a healthy economy. The 2003 Energy Action Plan calls for the State to assist in transformation of the transportation system to improve air quality, reduce congestion, and increase efficient use of fuel supplies with the least environmental and energy costs. The Energy Action Plan identifies strategies, such as assistance to public agencies and fleet operators in implementing incentive programs for zero-emission vehicles and addressing their infrastructure needs, and encourages urban designs that reduce VMT and accommodate pedestrian and bicycle access. In the 2005 Energy Action Plan, the CEC and CPUC updated the energy policy vision by adding dimensions to the policy areas, such as information on the emerging importance of climate change, transportation-related energy issues, and research and development activities. The CEC adopted an update to the 2005 Energy Action Plan in 2008 that supplements the earlier Energy Action Plans and examines the State's ongoing actions in the context of global climate change.

California Code of Regulations Title 24 (California Building Code)

Updated every three years through a rigorous stakeholder process, Title 24 of the California Code of Regulations requires California homes and businesses to meet strong energy efficiency and sustainability measures, thereby lowering their energy consumption. Title 24 contains numerous subparts, including Part 1 (Administrative Code), Part 2 (Building Code), Part 3 (Electrical Code), Part 4 (Mechanical Code), Part 5 (Plumbing Code), Part 6 (Energy Code), Part 8 (Historical Building Code), Part 9 (Fire Code), Part 10 (Existing Building Code), Part 11 (Green Building Standards Code), Part 12 (Referenced Standards Code). The California Building Code is applicable to all development in California (Health and Safety Code Sections 17950 and 18938[b]).

The regulations receive input from members of industry, as well as the public, with the goal of “[r]educing of wasteful, uneconomic, inefficient, or unnecessary consumption of energy” (Public Resources Code Section 25402). These regulations are scrutinized and analyzed for technological and economic feasibility (Public Resources Code Section 25402[d]) and cost effectiveness (Public Resources Code Sections 25402[b][2] and [b][3]).

PART 6 – BUILDING ENERGY EFFICIENCY STANDARDS

California Code of Regulations Title 24 Part 6 is the Building Energy Efficiency Standards. This code, originally enacted in 1978, establishes energy efficiency standards for residential and non-residential buildings in order to reduce California’s energy demand. The Building Energy Efficiency Standards is updated periodically to incorporate and consider new energy-efficiency technologies and methodologies as they become available. New construction and major renovations must demonstrate their compliance with the current Building Energy Efficiency Standards through submission and approval of a Title 24 Compliance Report to the local building permit review authority and the California Energy Commission.

In 2021, the California Energy Commission updated Title 24 standards with more stringent requirements that became effective January 1, 2023. The building efficiency standards are enforced through the local plan check and building permit process. Local government agencies may adopt and enforce additional energy standards for new buildings as reasonably necessary due to local climatologic, geologic, or topographic conditions, provided these standards exceed those provided in Title 24.

The 2022 update to the Building Energy Efficiency Standards under Title 24 applies to buildings for which an application for a building permit is submitted on or after January 1, 2023. The updated standards mainly established electric-ready requirements when natural gas is installed, expanded solar photovoltaic and battery storage standards, and strengthened ventilation standards to improve indoor air quality (CEC 2021).

PART 11 – CALIFORNIA GREEN BUILDING STANDARDS

The California Green Building Standards Code, commonly referred to as “CALGreen” originally went into effect on August 1, 2009, and outlines architectural design and engineering principles that are in synergy with environmental resources and public welfare. CALGreen sets minimum standards for buildings, and since 2016, applies to new building construction and some alterations/additions within certain parameters. CALGreen establishes planning and design standards for sustainable site development, including water conservation measures and requirements that new buildings reduce water consumption by 20 percent below a specified baseline. CALGreen requires installations of 1.28 gallons-per-flush toilets and 0.5-gallon-per flush urinals for all non-residential projects as part of the prescriptive method of reducing indoor water use by the required 20 percent.

CALGreen lays out the minimum requirements for newly constructed residential and non-residential buildings to reduce GHG emissions through improved efficiency and process improvements. It also includes voluntary tiers to encourage building practices that improve public health, safety, and general welfare by promoting a more sustainable design. In addition, CALGreen includes several requirements related to solid waste diversion. Importantly, new non-residential construction is required to achieve at least 65 percent construction and demolition waste diversion and provide recycling areas for paper, cardboard, glass, plastics, metal, and organic waste. The 2022 CALGreen update primarily includes new requirements for the inclusion of electric vehicle charging stations and carbon dioxide monitoring and controls in classrooms. These requirements went into effect January 1, 2023.

Senate Bills 350 and 100

The Clean Energy and Pollution Reduction Act of 2015 (Senate Bill [SB] 350) requires the amount of electricity generated and sold to retail customers per year from eligible renewable energy resources

to be increased to 50 percent by December 31, 2030. This act also requires doubling of the energy efficiency in existing buildings by 2030.

Adopted on September 10, 2018, SB 100 supports the reduction of GHG emissions from the electricity sector by accelerating the State's Renewables Portfolio Standard Program, last updated by SB 350. SB 100 requires electricity providers to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020, 44 percent by 2024, 60 percent by 2030, and 100 percent by 2045.

Assembly Bill 1493

Assembly Bill 1493 (Chapter 200, Statutes of 2002), known as the Pavley Bill, amended Health and Safety Code Sections 42823 and added 43018.5, requiring CARB to develop and adopt regulations that achieve maximum feasible and cost-effective reduction of GHG emissions from passenger vehicles, light-duty trucks, and other vehicles used for noncommercial personal transportation in California.

Assembly Bill 1007

Assembly Bill 1007 (Chapter 371, Statutes of 2005) required the CEC to prepare a State plan to increase the use of alternative fuels in California. The CEC prepared the State Alternative Fuels Plan (SAF Plan) in partnership with CARB and in consultation with other federal, State, and local agencies. The SAF Plan presents strategies and actions California must take to increase the use of alternative non-petroleum fuels in a manner that minimizes costs to California and maximizes the economic benefits of in-state production. The SAF Plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuels use, reduce GHG emissions, and increase in-state production of biofuels without causing a significant degradation of public health and environmental quality.

CARB In-Use On-Road and Off-Road Diesel Rules

The CARB In-Use On-Road and Off-Road Diesel Rules impose limits on idling, restrict the addition of older vehicles, and require the retirement or replacement of older engines depending on their fleet size category. This policy indirectly impacts energy consumption. More specifically, CARB is also charged with developing air pollution control regulations based upon the best available control measures and implementing every feasible control measure under the State and Federal Clean Air Act (Health and Safety Code Sections 39602.5, 39667, 43013[a, h], 43018, 40600, 40601, 40612[a][2] and [c][1][A]). Pursuant to these directives, stringent emission standards were adopted in 2004 for off-road construction equipment (i.e., "Tier 4" standards) (40 Code of Federal Regulations Parts 1039, 1065, and 1068; Title 13 California Code of Regulations Section 2025). CARB also adopted emission standards for on-road heavy duty diesel vehicles (i.e., haul trucks) (13 California Code of Regulations Section 1956.8). These haul truck regulations mandate fleet turnover to ensure that nearly all on-road diesel trucks will have 2010 model year engines or equivalent (i.e., Tier 4) by January 1, 2023.

California Advanced Clean Trucks Program

In June 2020, CARB approved the Advanced Clean Trucks regulation, which requires manufacturers who certify Class 2b-8 chassis or complete vehicles with combustion engines to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. In addition, the regulation requires company and fleet reporting for large employers and fleet owners with 50 or

more trucks. By 2045, all new trucks sold in California must be zero-emission. Implementation of this regulation would reduce consumption of nonrenewable transportation fuels as trucks transition to alternative fuel sources.

CARB Advanced Clean Cars Plan

The CARB Advanced Clean Cars Plan coordinates regulation of smog-causing pollutants and GHG emissions through developing more stringent emissions standards for vehicles and improving the number of zero-emission vehicles on the roadways. This policy indirectly impacts energy consumption.

Executive Order B-48-18

On January 26, 2018, Governor Brown signed EO B-48-18, requiring all State entities to work with the private sector to have at least five million zero-emission vehicles (ZEVs) on the road by 2030 as well as to install 200 hydrogen fueling stations and 250,000 electric vehicle (EV) charging stations by 2025. The EO specifies that 10,000 of the EV charging stations should be direct current fast chargers. This EO also requires all State entities to continue to partner with local and regional governments to streamline the installation of ZEV infrastructure. The Governor's Office of Business and Economic Development is required to publish a Plug-in Charging Station Design Guidebook and update the 2015 Hydrogen Station Permitting Guidebook to aid in these efforts. All State entities are required to participate in updating the 2016 ZEV Action Plan, along with the 2018 ZEV Action Plan Priorities Update, which includes and extends the 2016 ZEV Action Plan (Governor's Interagency Working Group on Zero-Emission Vehicles 2016 and 2018), to help expand private investment in ZEV infrastructure with a focus on serving low-income and disadvantaged communities.

Executive Order N-79-20

Governor Gavin Newsom signed EO N-79-20 in September 2020, which sets a statewide goal that 100 percent of all new passenger car and truck sales in the State will be zero-emissions by 2035. It also sets goals for 100 percent of statewide new sales of medium- and heavy-duty vehicles to be zero emissions by 2045, where feasible, and for all new sales of drayage trucks to be zero emissions by 2035. Additionally, the EO targets 100 percent of new off-road vehicle sales in the State to be zero emission by 2035. CARB is responsible for implementing the new vehicle sales regulation.

University of California

UC Policy on Sustainable Practices

UC's official sustainability commitment began in 2003 with a Regental action that led to the adoption of a Presidential Policy on Green Building Design and Clean Energy Standards in 2004. Since adopting that policy, UC expanded its sustainability policies to address climate protection, transportation, building operations, waste, procurement, food, water, and health care facilities. The policy was subsequently renamed the UC Policy on Sustainable Practices, which is updated periodically. In the 2007 revision of the UC Policy on Sustainable Practices, the UC Office of the President (UCOP) committed UC to implementing actions to achieve a reduction in GHG emissions from UC operations and activities to 2000 levels by 2014 and 1990 levels by 2020. Today, UC's official commitment to sustainability across the above-listed sectors is integrated into the UC Policy on Sustainable Practices, which was last updated in July 2023. Per agreement of UCR and RUSD, the

proposed project would be subject to compliance with the Sustainable Practices Policy in effect at the time (September 2018), which includes the following:

- **Policy A.1:** All new building projects, other than acute care facilities, shall be designed, constructed, and commissioned to outperform the California Building Code energy-efficiency standards by at least 20 percent or meet the whole-building energy performance targets listed in Table 1 of Section V.A.3 of the UC Policy on Sustainable Practices. The University will strive to design, construct, and commission buildings that outperform California Building Code energy efficiency standards by 30 percent or more or meet the stretch whole-building energy performance targets listed in Table 1 of Section V.A.3 of the UC Policy on Sustainable Practices, whenever possible within the constraints of program needs and standard budget parameters.
- **Policy A.3:** No new building or major renovation that is approved after June 30, 2019, shall use on-site fossil fuel combustion (e.g., natural gas) for space and water heating (except those projects connected to an existing campus central thermal infrastructure). Projects unable to meet this requirement shall document the rationale for this decision, as described in Section V.A.4 of the UC Policy on Sustainable Practices.
- **Policy A.4:** All new buildings will achieve a U.S. Green Building Council (USGBC) LEED “Silver” certification at a minimum. All new buildings will strive to achieve certification at a USGBC LEED “Gold” rating or higher, whenever possible within the constraints of program needs and standard budget parameters.
- **Policy B.2:** Campuses and health locations will install additional on-site renewable electricity supplies and energy storage systems whenever cost-effective and/or supportive of the location’s Climate Action Plan or other goals.

University of California, Riverside

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP is a long-term planning document prepared to guide campus development. The 2021 LRDP also includes objectives and policies relevant to energy that are applicable to the proposed project, which are summarized in Table 4.6-5.

Table 4.6-5 UCR 2021 LRDP Objectives and Policies Related to Energy

Objective	Policy
Mobility	
Invest in infrastructure to increase bicycle use and support other active transportation modes to integrate desired routes with the campus’ and City’s circulation framework.	Support and facilitate City-led initiatives to extend bikeways to campus from every direction, including routes proposed along Canyon Crest Drive, Martin Luther King Boulevard, and the Gage Canal.
	Provide adequate support amenities to facilitate and encourage the use of bicycles and other alternative transportation modes.
Emphasize safe and pleasing passage for pedestrians and bicycle riders through the careful, continued development and integration of the campus’ multi-modal circulation framework and its extensions into the immediate community.	Implement University policies to improve pedestrian safety and encourage social interaction in zones of high pedestrian activity.

Objective	Policy
Campus Utility Infrastructure – Electricity	
Support alternative measures (e.g., alternative fuels, energy sources, practices, carbon offsets, etc.) and mixed energy source portfolios in support of green sustainability practices.	Continuously explore the potential to use alternative fuels over time as they become feasibly available.
	Evaluate procurement options for alternative energy while considering long-term financial viability for the University.
	Incorporate solar panels on the roofs of new construction to the maximum feasible extent.
	Incorporate solar panels as integral elements of new construction design and applicable green building certifications to the maximum feasible extent.
Campus Utilities Infrastructure – Potable Water, Wastewater, and Irrigation	
Commit to a multi-prong approach to conserving potable water use.	Reduce potable water use in new facilities by exceeding applicable codes by a minimum of 20 percent.
	Design new building irrigation and efficient toilet flushing systems for use with future non-potable water sources.
Campus Sustainability	
Continue to build on this commitment to environmental stewardship to account for the impacts of development and expansion of campus infrastructure.	On-Campus Renewable Electricity – Campuses and health locations will install additional on-site renewable electricity supplies and energy storage systems whenever cost effective and/or supportive of the location’s Climate Action Plan or other goals.

Source: UCR 2021b

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

City of Riverside General Plan

OPEN SPACE AND CONSERVATION ELEMENT

The Open Space and Conservation Element of the City’s General Plan contains policies applicable to the proposed project to encourage the efficient use of energy by residential and commercial users by supporting the development and use of renewable resources (Policy OS-8.1), incorporating energy conservation features into the design of all new construction (Policy OS-8.2), requiring all new development to incorporate energy efficient lighting and heating and cooling systems (Policy OS-8.6), and requiring bicycle parking in new non-residential development (Policy OS-8.12) (City of Riverside 2012).

4.6.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Energy.

Would the proposed project:

- a. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?
- b. Conflict with or obstruct a State or local plan for renewable energy or energy efficiency?

Methodology

The approach to analysis of energy impacts is based on Public Resources Code Section 21100(b)(3), which states an EIR shall include “mitigation measures proposed to minimize significant effects on the environment, including, but not limited to, measures to reduce the wasteful, inefficient, and unnecessary consumption of energy.” Guidance for implementing this section is provided in CEQA Guidelines Appendix F (Energy Conservation). CEQA Guidelines Section 15126.2(b) further explains, “This [energy] analysis may be included in related analyses of air quality, GHG emissions, transportation or utilities in the discretion of the lead agency.” Consistent with that approach, additional discussion of the physical environmental impacts associated with production of energy is also included in the other resource sections of this EIR included but not limited to Section 4.3, *Air Quality*, Section 4.8, *Greenhouse Gas Emissions*, Section 4.17, *Transportation*, and Section 4.19, *Utilities and Service Systems*. Energy consumption associated with construction and operation of the proposed project was calculated with regard to stationary and mobile energy demand. The input data and energy demand estimates related to the proposed project are discussed below.

Construction Energy Consumption

Energy demand for off-road construction equipment is based on anticipated equipment, usage hours, horsepower, load factors, and construction phase duration provided in the CalEEMod output files, the methodology for which is detailed in Section 4.3, *Air Quality*. Fuel consumption is calculated based on compression-ignition engine brake-specific fuel consumption factors in *Exhaust and Crankcase Emission Factors for Nonroad Compression Ignition Engines* (USEPA 2018).

Construction energy demand also considers diesel fuel consumption associated with vendor/hauling truck trips and gasoline fuel consumption associated with worker trips to and from construction sites. Pursuant to USDOT guidance, hauling, vendor, and worker trip fuel consumption considers anticipated daily trips, default trip lengths, and average fuel efficiency values obtained from the Bureau of Transportation Statistics (USDOT 2018).

Operational Energy Consumption

Assumptions included in the calculation of operational energy consumption are provided in Section 4.3, *Air Quality*, Section 4.8, *Greenhouse Gas Emissions*, and Appendix C. As discussed therein, the default CalEEMod rates for energy usage for the “high school” land use were utilized along with transportation data provided by Fehr & Peers (Appendix H). Although the proposed project would utilize electricity for space and water heating rather than natural gas, this analysis conservatively did not adjust the default natural gas usage estimate in CalEEMod, which includes

space/water heating as well as cooking and other uses, due to a lack of available data on the estimated natural gas reduction. To provide a conservative estimate of project energy consumption, energy consumption associated with existing on-site development (i.e., the open recreational field) was not modeled or accounted for in the energy consumption estimates for the proposed project.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Impact E-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN A POTENTIALLY SIGNIFICANT ENVIRONMENTAL IMPACT DUE TO WASTEFUL, INEFFICIENT, OR UNNECESSARY CONSUMPTION OF ENERGY RESOURCES, DURING PROJECT CONSTRUCTION OR OPERATION. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The proposed project would use nonrenewable and renewable resources for construction and operation of the proposed project. The anticipated use of these resources is detailed in the following subsections.

Construction Energy Demand

Project construction would require demolition, including hauling material off-site; site preparation and grading; pavement and asphalt installation; building construction; architectural coating; and landscaping and hardscaping. During project construction, energy would be consumed in the form of petroleum-based fuels used to power off-road construction vehicles and equipment, construction worker travel to and from the construction site, and vehicles used to deliver materials to the site. Other types of energy consumption expended during construction (e.g., temporary lighting during winter hours) would be negligible. Therefore, only gasoline and diesel fuels are included in the construction energy analysis. As shown in Table 4.6-6, project construction would require approximately 23,469 gallons of gasoline and approximately 92,216 gallons of diesel fuel. These construction energy estimates are conservative because they assume that the construction equipment used in each phase of construction is operating every day of construction.

Table 4.6-6 Estimated Fuel Consumption during Construction

Source	Fuel Consumption (gallons)	
	Gasoline	Diesel
Construction Equipment & Hauling Trips	--	92,216
Construction Worker Vehicle Trips	23,469	--

See Appendix C for energy calculation sheets.

Energy use during construction would be temporary in nature, and construction equipment used would be typical of other similar-sized construction projects for educational projects in the region. In addition, construction contractors would be required to comply with the provisions of California Code of Regulations Title 13 Sections 2449 and 2485, which prohibit diesel-fueled commercial motor vehicles and off-road diesel vehicles from idling for more than five minutes and would minimize unnecessary fuel consumption. Construction equipment would be subject to the USEPA Construction Equipment Fuel Efficiency Standard, which would also minimize inefficient, wasteful,

or unnecessary fuel consumption. Furthermore, pursuant to applicable regulatory requirements such as 2022 CALGreen, the proposed project would comply with construction waste management practices to divert a minimum of 65 percent of construction debris. These practices would result in efficient use of energy necessary to construct the proposed project. In the interest of cost-efficiency, construction contractors also would not utilize fuel in a manner that is wasteful or unnecessary.

On-site construction equipment may include alternatively-fueled vehicles (such as natural gas) where feasible. Furthermore, the selected construction contractors would use the best available engineering techniques, construction and design practices, and equipment operating procedures, thereby ensuring that the wasteful consumption of fuels and use of energy would not occur. Energy efficiency is also expected for the off-site production of construction materials, based on the economic incentive for efficiency and cost savings. Furthermore, such construction energy expenditures are necessary to implement RUSD’s obligations to the local population and are necessary to meet the project objectives. Therefore, project construction would not result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, and impacts related to would be **less than significant**.

Operational Energy Demand

Operation of the proposed project would contribute to regional energy demand by consuming electricity, natural gas, and gasoline and diesel fuels. Electricity would be used for heating and cooling systems, lighting, appliances, and water and wastewater conveyance, among other purposes. Natural gas would be utilized for cooking and laboratory purposes. Gasoline and diesel consumption would be associated with vehicle trips generated by students, faculty, staff, and visitors. Table 4.6-7 summarizes estimated operational energy consumption for the proposed project. As shown therein, project operation would require approximately 181,648 gallons of gasoline and 39,586 gallons of diesel for transportation fuels, 521 MWh of electricity, and 1,915,235 kBtu of natural gas per year. Vehicle trips associated with future students, faculty, staff, and visitors would represent the greatest operational use of energy associated with the proposed project. This estimate of operational energy usage does not account for existing energy usage at the project site such as electricity for field lighting and operation of the existing cell towers as well as fuel consumption by vehicles of users of the on-site recreational field. Therefore, the proposed project would result in a lower net increase in energy consumption at the project site than that shown in Table 4.6-7 when accounting for existing energy usage.

Table 4.6-7 Estimated Project Annual Operational Energy Consumption

Source	Energy Consumption ¹	
Transportation Fuels		
Gasoline	181,648 gallons	19,942 MMBtu
Diesel	39,586 gallons	5,046 MMBtu
Electricity	521 MWh	1,778 MMBtu
Natural Gas Usage	1,915,235 kBtu	1,915 MMBtu

MMBtu = million metric British thermal units; MWh = megawatt-hours; kBtu = thousand metric British Thermal Units

¹ Energy consumption is converted to MMBtu for each source

See Appendix C for energy calculation sheets and CalEEMod output results for electricity and natural gas usage.

The proposed project would be required to comply with all standards set in the latest iteration of the California Building Standards Code (California Code of Regulations Title 24), which would minimize the wasteful, inefficient, or unnecessary consumption of energy resources by the built environment during operation. California's CALGreen standards (California Code of Regulations Title 24, Part 11) require implementation of energy-efficient light fixtures and building materials into the design of new construction projects. In addition, the 2022 Building Energy Efficiency Standards (California Code of Regulations Title 24, Part 6) require newly constructed buildings to meet energy performance standards set by the CEC. These standards are specifically crafted for new buildings to result in energy efficient performance so that the buildings do not result in wasteful, inefficient, or unnecessary consumption of energy. Pursuant to CALGreen, all plumbing fixtures used for the proposed project would be high-efficiency fixtures, which would minimize the potential for the inefficient or wasteful consumption of energy related to water and wastewater. The proposed project would also be designed and constructed to meet minimum LEED Silver certification, which would include the use of solar panels and energy conservation/efficiency features, and would be served by RPU, which has a higher share of renewable energy compared to the Statewide portfolio. As a result, the proposed project would maximize the use of renewable energy. Furthermore, as discussed in Section 4.17, *Transportation*, the proposed project would result in a net decrease in per capita regional VMT, thereby also resulting in a net decrease in per capita fuel consumption. Therefore, project operation would not result in potentially significant environmental effects due to the wasteful, inefficient, or unnecessary consumption of energy, and impacts would be **less than significant**.

Secondary Impacts of Displaced Recreational Activities

As discussed in Section 4.16, *Recreation*, the proposed project would require removal of the existing open recreation field on site, which would result in the re-location of existing on-site UCR and City recreational activities to other nearby UCR and City facilities. Under existing baseline conditions, this re-location of City recreational activities would occur regardless of the proposed project on September 17, 2027, which is the date on which the City's non-exclusive license for use of the open recreation field on site will expire. Therefore, assuming project construction begins as early as January 1, 2026, these effects on recreational facility usage would only be attributable to the proposed project for a period of approximately 20.5 months.

Upon the start of project construction, existing users of the open recreational field on site may have to travel shorter or further distances to reach other nearby UCR and City facilities to engage in recreational activities previously conducted on the project site. Several other UCR and City recreational facilities are available within two miles of the project site, as outlined in Section 4.16, *Recreation*. The distance traveled by any given user would depend on their origin and destination locations, which could vary widely, especially based on what recreational facilities the user desires (e.g., soccer fields, softball fields, open fields). Based on whether overall vehicle miles traveled associated with existing recreational use of the project site increases or decreases, fuel consumption would increase or decrease correspondingly.

For the purposes of CEQA, estimating the net change in vehicle miles traveled and the resulting fuel consumption associated with this change would be speculative because of the multiple unknown variables and data involved, such as the origin and destination locations of each existing user of the open recreational field. As stated in Sections 15144, 15145, and 15146(b) of the CEQA Guidelines, the lead agency is not required to, nor should it, engage in speculation or conjecture. As stated in CEQA Guidelines Section 15145, if, after thorough investigation, a lead agency finds that particular

impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project conflict with or obstruct a State or local plan for renewable energy or energy efficiency?

IMPACT E-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CONFLICT WITH OR OBSTRUCT A STATE OR LOCAL PLAN FOR RENEWABLE ENERGY OR ENERGY EFFICIENCY. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As outlined in Section 4.6.3, *Regulatory Framework*, several State, UC, and local plans and policies for renewable energy and energy efficiency have been adopted. The following sections discuss the proposed project's consistency with applicable State, UC, and local plans.

Consistency with State Plans (CBC Title 24 [CalGreen Code and State Energy Efficiency Standards] and SB 100)

Energy Efficiency

The proposed project would be required to comply with all building design standards set in California Building Code Title 24. The CALGreen Code (Title 24, Part 11) requires implementation of energy efficient light fixtures and building materials into the design of new construction projects, and the Building Energy Efficiency Standards (Title 24, Part 6) require newly constructed buildings to meet energy performance standards set by the CEC. As the name implies, these standards are specifically crafted for new buildings to result in energy-efficient performance, so the buildings do not result in inefficient consumption of energy. The standards are updated every three years, and each iteration is more energy efficient than the previous standards. For example, according to the CEC, nonresidential buildings built with the 2019 standards used about 30 percent less energy than buildings built with the 2016 standards due mainly to lighting upgrades (CEC 2021). In addition, the proposed project would also be designed and constructed to meet minimum LEED Silver certification, which would include the use of solar panels and energy conservation/efficiency features. LEED-certified buildings enable projects to achieve zero net energy consumption by requiring integrative designs that help reduce overall energy consumption and efficiently monitor energy consumption levels (Blackwelder 2018). As such, the proposed project's buildings would be subject to the latest energy efficiency standards pursuant to the CALGreen Code (Title 24, Part 11) and Building Energy Efficiency Standards (Title 24, Part 6).

Renewable Energy

SB 100 mandates 100 percent clean electricity for California by 2045. The proposed project would include solar panels on approximately half of the roof and would be sized to meet LEED Silver certification requirements, which would help supply a portion of the project's electricity usage with renewable energy and maximize the use of on-site renewable energy. In addition, the proposed

project's use of nonrenewable energy resources would be reduced over time because the electricity generated by renewable resources provided by RPU continues to increase to comply with State requirements through SB 100, which requires electricity providers to increase procurement from eligible renewable energy resources to 60 percent by 2030 and 100 percent by 2045. Because the proposed project would be powered by the existing State electricity grid, it would be powered by renewable energy as mandated by SB 100.

Therefore, the proposed project impacts related to consistency with applicable State plans for increased energy efficiency and renewable energy use would be **less than significant**.

Consistency with UC Policy on Sustainable Practices

Energy Efficiency

As part of the UC system, UCR is required to abide by the UC Policy on Sustainable Practices regarding energy efficiency and renewable energy. Per agreement of UCR and RUSD, the proposed project would be subject to compliance with the Sustainable Practices Policy in effect at the time (September 2018). The proposed project would be required to comply with UC Policy on Sustainable Practices A.1, which requires design, construction, and commission of all new buildings to outperform the California Building Code Title 24, Part 6 energy-efficiency standards by at least 20 percent and to meet a minimum of LEED Silver certification principles. In addition, the proposed project would be required to comply with UC Policy on Sustainable Practices A.3 in terms of prohibiting the installation of natural gas connections for space and water heating. The proposed project would be designed and constructed to achieve LEED Silver certification and would only include natural gas connections for cooking and laboratory purposes. As such, the proposed project would be consistent with the latest energy efficiency standards pursuant to UC Policy on Sustainable Practices requirements.

Therefore, the proposed project's impacts related to consistency with applicable UC plans for increased energy efficiency and renewable energy use would be **less than significant**.

Consistency with City's General Plan

Energy Efficiency

As noted previously, the proposed project would be required to comply with the building design standards set in California Building Code Title 24, including those related to the use of energy efficient light fixtures and building materials and compliance with energy performance standards set by the CEC. In addition, the proposed project would also be designed and constructed to meet minimum LEED Silver certification, which would include the use of solar panels and energy conservation/efficiency features. Therefore, the proposed project would incorporate energy conservation features as well as energy efficient lighting and heating and cooling systems, which would be consistent with Policies OS-8.2 and OS-8.6 of the City's General Plan Open Space and Conservation Element (City of Riverside 2012). In addition, the proposed project would comply with the bicycle parking requirements under CALGreen, consistent with Policy OS-8.12 of the City's General Plan Open Space and Conservation Element (City of Riverside 2012).

Renewable Energy

As discussed previously, the proposed project would include solar panels on approximately half of the roof and would be sized to meet LEED Silver certification requirements, which would help supply a portion of the project's electricity usage with renewable energy and increase the use of on-site renewable energy. Therefore, the proposed project would include the development of renewable energy resources, which would be consistent with Policy OS-8.1 of the City's General Plan Open Space and Conservation Element (City of Riverside 2012).

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.6.5 Cumulative Impacts

The geographic scope of the cumulative energy analysis is the RPU service area and Riverside County. All cumulative projects would be required to comply with California Building Code Title 24 minimum 2022 Building Energy Efficiency standards (Title 24, Part 6) and CALGreen Code requirements (Title 24, Part 11). Future cumulative projects would be designed in accordance with these minimum State energy efficiency standards for residential and nonresidential buildings. These standards include minimum energy efficiency requirements related to building envelope, mechanical systems (e.g., heating, ventilation, and air conditioning and water heating systems), and indoor and outdoor lighting. The incorporation of California Building Code Title 24 standards into the design of the cumulative projects, including the proposed project, would result in reduced wasteful, inefficient, or unnecessary use of energy. Furthermore, as discussed under Impact E-2, the proposed project would be consistent with applicable State, UC, and local plans for energy efficiency and renewable energy. These plans are intended to address cumulative impacts related to renewable energy and energy efficiency. Therefore, the proposed project's contribution to cumulative energy impacts would **not be cumulatively considerable (less than significant)**.

4.6.6 References

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4.7 Geology and Soils

4.7.1 Introduction

This section describes the geology, soils, and paleontological resources present at the project site and how the regulatory framework addresses these resources. This section then analyzes the potential impacts related to geology, soils, and paleontological resources that could result from implementation of the proposed project.

4.7.2 Existing Conditions

Regional Setting

Riverside County (County) is geographically diverse, encompassing mountains, hills, and riparian valleys. The city of Riverside (City) is in the northwest portion of the County, with the Santa Ana Mountain ranges approximately 20 miles south and southwest of the project site and the San Bernardino Mountains approximately 20 miles north and northeast of the project site. The City lies in the northern end of the Peninsular Ranges geomorphic province of California, south of its intersection with the Transverse Ranges. The Peninsular Ranges extend into Baja California and are bound to the east by the Colorado Desert. The City's planning areas are primarily underlain by granite, adamellite, Mesozoic granitic rock, granodiorite, Mesozoic basic intrusive rocks, and alluvium (located around the Santa Ana River), most of which are dated from the Mesozoic period, except for the alluvium, which dates from the Quaternary (City of Riverside 2007).

Mountains and hills typically have slopes of 15 to 50 percent, and valley and basin areas usually have slopes of less than 15 percent. In the City, most natural slopes are very flat, generally less than 15 percent, with some slopes ranging from 15 to 25 percent in eastern and southern portions of the City. Many slopes in the City's planning area are steeper than the topography of the City as a whole. For example, areas around Lake Mathews and the Box Springs Mountains are much steeper than the terrain in which the project site is situated. Slopes along a substantial portion of the area west and south of Lake Mathews and along the northeastern line exceed 30 percent (City of Riverside 2007).

Campus and Project Site Setting

The UCR campus is within the Perris Block in the northern portion of the Peninsular Ranges geomorphic province (California Geological Survey [CGS] 2002). The Perris Block is a roughly rectangular area of relatively low relief that has remained relatively stable and undeformed during the Neogene period (Norris and Webb 1990; Morton and Miller 2006). It is bound by the Cucamonga Fault Zone to the north, the San Jacinto Mountains to the east, the Elsinore Fault Zone to the southwest, and the Chino Basin to the west. According to Morton and Miller, the Perris Block is underlain by lithologically diverse prebatholithic metasedimentary rocks, intruded by Cretaceous plutons of the Peninsular Ranges Batholith, which are subsequently overlain by thin to relatively thick, discontinuous sections of nonmarine Quaternary sediments. Quaternary deposits in the Perris Block consist of Pleistocene and Holocene alluvial fan deposits emanating from the nearby San Gabriel Mountains to the north and fluvial deposits from the Santa Ana River, which bisects the Perris Block and flows southward (UCR 2021).

Elevations on the UCR campus range from approximately 1,000 to 1,400 feet above sea level. Most of the surface of the campus represents the valley floor as it existed during the Pleistocene epoch (greater than 11,000 years ago), which was incised by two active washes, the University Arroyo and the Box Springs Arroyo, during Holocene time (the last 11,000 years). These incisions resulted in the current landform of the campus. The geologic materials that underlie the campus include granitic bedrock that is part of the Val Verde tonalite, older alluvium (deposited during the Pleistocene), and younger alluvium (deposited during the Holocene) (UCR 2021).

Topography on the project site is relatively flat with elevations ranging from approximately 1,020 to 1,030 feet above mean sea level. The regional geology around the project site was mapped at a scale of 1:100,000 by Morton and Miller (2006), who identified two geologic units, old alluvial fan deposits and very old alluvial fan deposits, underlying the project site (Figure 4.7-1).

Earthquake Faults and Seismicity

The numerous faults in southern California include active, potentially active, and inactive faults. The criteria for these major groups are based on measures developed by the CGS for the Alquist-Priolo Earthquake Fault Zone Program. An active fault is one that has had surface displacement within Holocene time (about the last 11,000 years). A potentially active fault has demonstrated surface displacement during Quaternary time (approximately the last 1.6 million years) but has had no known Holocene movement. Faults that have not moved in the last 1.6 million years are considered inactive. The major seismic-related hazards associated with earthquakes include ground rupture, major seismic ground shaking, seismic-related ground failure (including liquefaction), and landslides.

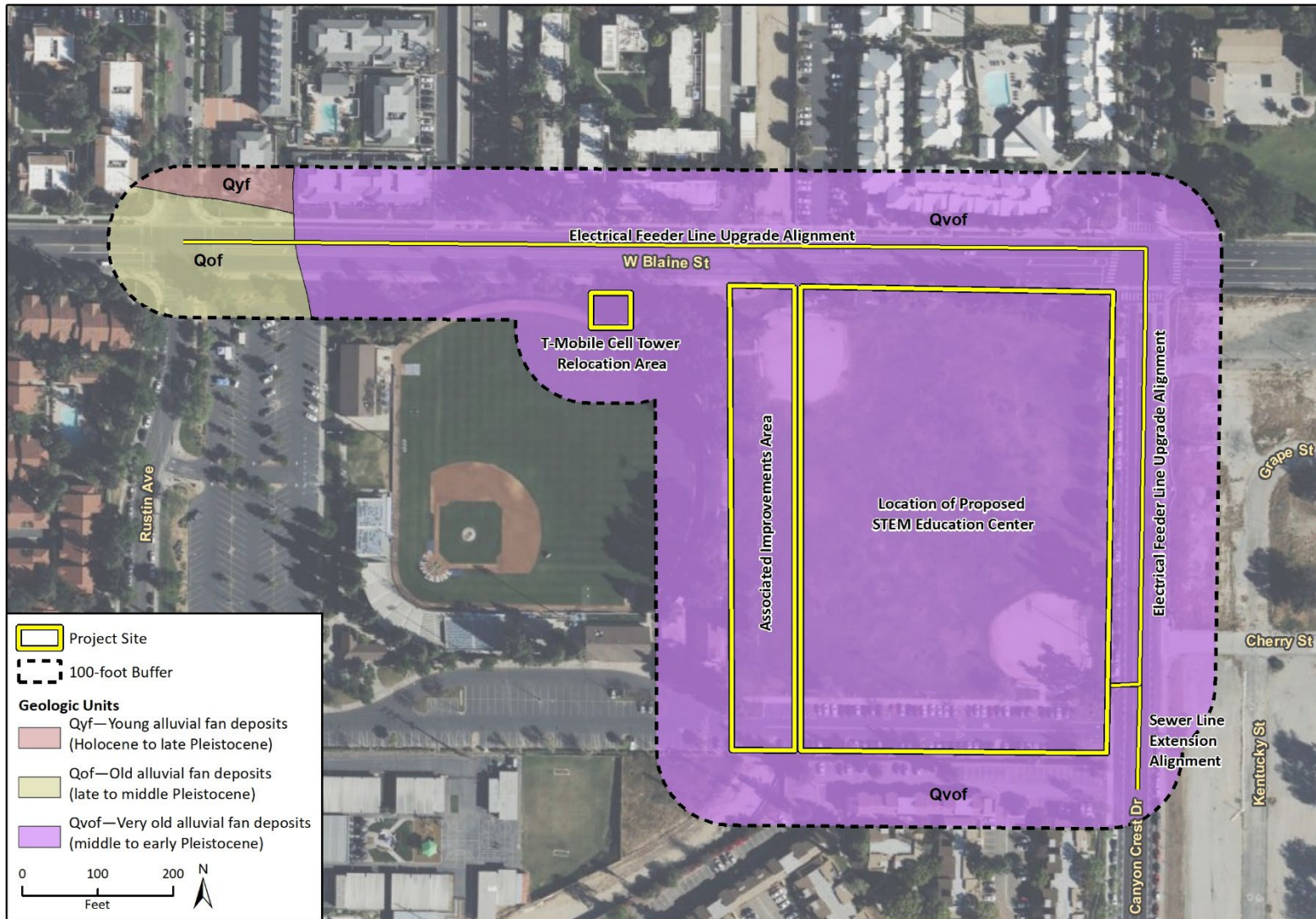
There are no active fault lines that partially or fully intersect the project site. The nearest faults to the project site are the San Jacinto Fault (approximately 5.2 miles northeast of the project site), the Cucamonga Fault (approximately 14.6 miles northwest of the project site), the San Andreas Fault (approximately 14.9 miles southwest of the project site), and the Elsinore Fault (approximately 18.1 miles southwest of the project site) (United States Geological Survey 2022). The San Jacinto Fault is capable of producing up to a 7.0 Magnitude (M) earthquake, measured on the Richter Scale (UCR 2021). The Elsinore Fault is capable of producing up to a 6.0M earthquake; the Cucamonga Fault is capable of producing up to a 7.0M earthquake; and the San Andreas Fault is capable of producing an 8.3M earthquake (UCR 2021). Historically, earthquakes in the region have mostly resulted from the San Jacinto Fault; however, each of the nearby fault systems near the project site are capable of producing an earthquake that could result in severe ground shaking.

Liquefaction and Landslides

Liquefaction occurs when ground shaking causes water-saturated soils to become fluid and lose strength. When liquefaction occurs, it can result in ground failure that can result in damage to roads, pipelines, and buildings. Liquefaction may also lead to lateral spreading of soil. The project site is mapped as having low potential for liquefaction as are the surrounding properties to the north, west, south, and east (UCR 2021).

Landslides, the movement of rock, earth, or debris down a sloped section of land, can be triggered by strong ground shaking. However, the project site is not susceptible to landslides because the topography is relatively flat and is not immediately adjacent to any sloped landscapes.

Figure 4.7-1 Geologic Map of Project Site



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Additional data provided by Morton and Miller, 2006.

Expansive Soils and Subsidence

Soils with relatively high clay content are expansive due to the capacity of clay minerals to take in water and swell (expand) to greater volumes. The project site is composed of Buren fine sandy loam, 2 to 8 percent slopes, eroded (United States Department of Agriculture [USDA] 2022). The City's General Plan EIR identifies Buren soils as having moderate shrink-swell potential (City of Riverside 2007).

Subsidence occurs when a large portion of land is displaced vertically, usually due to the withdrawal of groundwater, oil, or natural gas. Natural subsidence occurs from shifting of tectonic plates and dissolution of limestone and can produce sinkholes. Human-induced subsidence can occur from pumping water, oil, or gas from underground reservoirs; collapse of underground mines; drainage of wetlands; and soil compaction. Subsidence can be problematic because it threatens the stability of roads, bridges, canals, and other infrastructure. Soils particularly subject to subsidence include those with high silt or clay content. Soils with high shrink-swell potential can be particularly susceptible to subsidence during a loss of soil moisture. However, Buren soils on the project site do not exhibit high shrink-swell potential; thus, risks associated with natural subsidence are unlikely to occur on the project site (UCR 2021).

Paleontological Resources

Paleontological resources, or fossils, are the evidence of once-living organisms preserved in the rock record. They include both the fossilized remains of ancient plants and animals and the traces thereof (e.g., trackways, imprints, burrows, etc.). Paleontological resources occur within bedrock geologic deposits that underlie the soil layer and are almost exclusively preserved in sedimentary rocks. However, in rare cases, fossils can also be preserved in volcanic rocks and low-grade metamorphic rocks under certain conditions. The Society of Vertebrate Paleontology (SVP; 2010) has defined fossils as being remains or traces of plants and animals that are greater than 5,000 years old (i.e., older than middle Holocene in age). Fossils occur in a non-continuous and often unpredictable distribution within some sedimentary units, and the potential for fossils to occur within sedimentary units depends on several factors.

Rincon evaluated the paleontological sensitivity of the geologic units that underlie the project site to assess the project's potential for significant impacts to scientifically important paleontological resources. The analysis was based on the results of a review of existing information in the scientific literature regarding known fossils within geologic units mapped at the project site. According to the SVP (2010) classification system, geologic units can be assigned a high, low, undetermined, or no potential for containing scientifically significant nonrenewable paleontological resources. Following the literature review, a paleontological sensitivity classification was assigned to each geologic unit mapped within the project site. This criterion is based on rock units within which vertebrate or significant invertebrate fossils have been determined by previous studies to be present or likely to be present. The potential for impacts to significant paleontological resources is based on the potential for ground disturbance to directly impact paleontologically sensitive geologic units.

As shown on Figure 4.7-1, two geologic units, old alluvial fan deposits and very old alluvial fan deposits, underlie the project site. A third geologic unit, young alluvial fan deposits, is found within 100 feet of the electrical feeder line upgrade alignment. However, young alluvial fan deposits are not expected to be impacted by project excavations because they overlie old alluvial fan deposits and therefore are not expected to be found below the surface in areas mapped as old alluvial fan deposits.

Old alluvial fan deposits are late to middle Pleistocene in age and consist of indurated, usually reddish-brown to brown, sediments consisting primarily of sand to boulder-sized clasts (Morton and Miller 2006). Very old alluvial fan deposits are middle to early Pleistocene in age and consist of moderately to well-consolidated silt, sand, and gravel (Morton and Miller 2006). In the northern Peninsular Ranges, very old alluvial fan deposits commonly consist of orangish-brown sand and silt. Old alluvial fan deposits and very old alluvial fan deposits are both unnamed Pleistocene geologic units representing an alluvial depositional environment. Therefore, their paleontological sensitivities will be assessed together. Pleistocene-aged alluvial sediments have a well-documented record of abundant and diverse vertebrate fauna recorded throughout California, including the County, yielding taxa such as horse (*Equus*), tapir (*Tapirus*), bison (*Bison*), camel (*Camelops*, *Hemiauchenia*), mastodon (*Mammot*), mammoth (*Mammuthus*), ground sloth (*Paramylodon*, *Megalonyx*), canine (*Canis*, *Urocyon*, *Aenocyon*), rabbit (*Lepus*), and rodents (Jefferson 2010; Paleobiology Database 2022; University of California Museum of Paleontology 2022). Therefore, old alluvial fan deposits and very old alluvial fan deposits are assigned a high paleontological sensitivity.

4.7.3 Regulatory Framework

Federal

The Disaster Mitigation Act of 2000

The Disaster Mitigation Act of 2000 requires a State mitigation plan as a condition of disaster assistance. There are two different levels of State disaster plans: “Standard” and “Enhanced.” States that develop an approved Enhanced State Plan can increase the amount of funding available through the Hazard Mitigation Grant Program. The Act has also established new requirements for local mitigation plans.

Earthquake Hazards Reduction Act

The Earthquake Hazards Reduction Act was enacted in 1977 to “reduce the risks to life and property from future earthquakes in the United States through the establishment and maintenance of an effective earthquake hazards and reduction program.” To accomplish this, the act established the National Earthquake Hazard Reduction Program. This program was substantially amended in November 1990 by the National Earthquake Hazards Reduction Program Act, which refined the description of agency responsibilities, program goals, and objectives to focus on minimizing loss from earthquakes after they occur. The National Earthquake Hazards Reduction Program promotes the adoption of earthquake hazard reduction activities by all scales of government and works to develop national building standards and model codes for use by engineers, architects, and all others involved in the planning and construction of buildings and infrastructure.

Occupational Safety and Health Act

The Occupational Safety and Health Act (OSHA; 29 Code of Federal Regulations Section 1910) is intended to ensure that employers provide their workers with a work environment free from recognized hazards to safety and health, such as exposure to toxic chemicals, excessive noise levels, mechanical dangers, or unsanitary conditions. In California, operation of this program is delegated to the California Division of Occupational Safety and Health, known as Cal/OSHA. Standards are created by the National Institute for Occupational Safety as the research institution for the federal Occupational Safety and Health Act (Fed/OSHA). These standards are adopted at the State and local level and are enforced on campus by Cal/OSHA and other agencies.

OSHA requires employers with specified activities to prepare and implement emergency action plans (EAPs), provides guidance for EAPs, and recommends all employers prepare these plans. Employers can use this structure to prepare for earthquakes. OSHA also provides guidance to prepare for workplace hazards resulting from earthquakes. OSHA recommends training workers in preparing for earthquake by proactively training workers as well as by developing a response plan to implement in the event of an earthquake. Employers whose workers will be involved in emergency response operations for releases of, or substantial threats of releases of, hazardous substances regardless of the location of the hazard must comply with OSHA's Hazardous Waste Operations and Emergency Response (HAZWOPER) standard contained in 29 Code of Federal Regulations 1910.120. This may include emergency response following an earthquake. Instruction CPL 02-02-073 describes OSHA enforcement procedures under the relevant provisions of the HAZWOPER standard.

National Pollutant Discharge Elimination System Construction General Permit

On behalf of the United States Environmental Protection Agency, the State Water Resources Control Board administers the National Pollutant Discharge Elimination System (NPDES) Construction General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) (Order 2009-0009-DWQ, as amended by Orders 2010-0014-DWQ and 2012-006-DWQ). The order applies to construction sites or other projects that include one or more acre of soil disturbance, as required by the Clean Water Act. Activities subject to the Construction General Permit include clearing, grading, and disturbances to the ground, such as grubbing or excavation. The Construction General Permit requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) prepared by a Qualified SWPPP Developer and submitted to the State Water Resources Control Board. The SWPPP contains a site map that shows the construction site perimeter, existing and proposed buildings, lots, roadways, stormwater collection and discharge points, general topography both before and after construction, and drainage patterns across the project site. The purposes of the SWPPP are: (1) to help identify the sources of sediment and other pollutants that could affect the quality of stormwater discharges and (2) to describe and ensure the implementation of best management practices (BMPs) to reduce or eliminate sediment and other pollutants in stormwater as well as non-stormwater discharges resulting from construction activity. BMPs that can be implemented include, but are not limited to, silt fences, runoff control devices, wind erosion control, prevention of fluid leaks, and use of tracking controls at the site entrance.

State

Field Act

The Field Act, established in 1933, was one of the first pieces of legislation that mandated earthquake-resistant construction for schools in the United States. The Field Act was passed in response to a 1933 earthquake in Long Beach, which destroyed and rendered school buildings unsafe in southern California. The Field Act set standards for school site selection, which are codified in Title 5 of the California Code of Regulations and include the provision that potential sites selected for schools shall not be located on an active earthquake fault or fault trace. In addition, the Field Act requires geological and soils engineering studies for potential school sites to be conducted and submitted to the California Department of Education. The studies are required to address the following:

- Nature of the site, including a discussion of liquefaction, subsidence, expansive soils, slope, stability, dam or flood inundation, and street flooding;
- Whether the site is located within a special study zone as defined in California Education Code Section 17212;
- Potential for earthquake or other geological hazard damage;
- Whether the site is situated on or near a pressure ridge, geological fault, or fault trace that may rupture during the life of the school building and the student risk factor; and
- Economic feasibility of the construction effort to make the school building safe for occupancy.

Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act of 1972 (Alquist-Priolo Act; California Public Resources Code (PRC) Sections 2621 through 2630) was passed into law following the destructive February 9, 1971 San Fernando earthquake that had a magnitude of 6.6. The Alquist-Priolo Act provides a mechanism for reducing losses from surface fault rupture on a statewide basis. The intent of the Alquist-Priolo Act is to ensure public safety by prohibiting the siting of most structures for human occupancy across traces of active faults that constitute a potential hazard to structures from surface faulting or fault creep. Generally, structures for human occupancy must be set back from active faults by approximately 50 feet. Therefore, if a project site is in an active earthquake fault zone, the local agency must withhold development permits until geologic investigations demonstrate that the site is not threatened by surface displacement from future faulting.

Seismic Safety Act

The Seismic Safety Act established the California Seismic Safety Commission in 1975 with the intent of providing oversight, review, and recommendations to the Governor and State legislature regarding seismic issues. The Commission's name was changed to Alfred E. Alquist Seismic Safety Commission in 2006. Since then, the Commission has prepared several documents based on recorded earthquakes, such as the 1933 Long Beach earthquake, the 1971 Sylmar earthquake, and the 1994 Northridge earthquake.

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act of 1990 was enacted, in part, to address seismic hazards not included in the Alquist-Priolo Act, including strong ground shaking, landslides, and liquefaction. Under this Act, the State Geologist is assigned the responsibility of identifying and mapping seismic hazards. CGS Special Publication 117, adopted in 1997 by the State Mining and Geology Board, contains guidelines for evaluating seismic hazards other than surface faulting and for recommending mitigation measures under PRC Section 2695(a). In accordance with the mapping criteria, the CGS seismic hazard zone maps identify areas with the potential for a ground shaking event that corresponds to 10 percent probability of exceedance in 50 years.

The purpose of the Seismic Hazards Mapping Act is to reduce the threat to public health and safety and to minimize the loss of life and property by identifying and mitigating seismic hazards. Cities, counties, and State agencies are directed to use seismic hazard zone maps developed by CGS in their land-use planning and permitting processes. Pursuant to the Division of the State Architect Interpretation of Regulations A-4, school development projects must receive a letter of concurrence from the CGS prior to the start of construction that states CGS has reviewed and approved the seismic analysis completed.

California Building Code

The California Building Code (CBC) Title 24, Part 2, provides building codes and standards for the design and construction of structures in California. The purpose of the CBC is to establish minimum standards to safeguard public health, safety, and general welfare through structural strength, means of egress facilities, and general stability by controlling the design, construction, quality of materials, use and occupancy, location, and maintenance of building and structures. The CBC contains specific requirements for seismic safety, excavation, foundations, retaining walls, and site demolition. It also regulates grading activities, including drainage and erosion control. Chapter 16 of the CBC contains definitions of seismic sources and the procedure used to calculate seismic forces on structures.

In addition, the CBC contains necessary California amendments, which are based on the American Society of Civil Engineers (ASCE) Minimum Design Standards 7-05. ASCE 7-05 provides requirements for general structural design and includes means for determining earthquake loads as well as other loads (flood, wind, etc.) for inclusion into building codes. The provisions of the CBC apply to the construction, alteration, movement, replacement, and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures throughout California. The earthquake design requirements of the CBC take into account the occupancy category of the structure, site class, soil classifications, and various seismic coefficients, which are used to determine a Seismic Design Category (SDC) for a project. The SDC is a classification system that combines the occupancy categories with the level of expected ground motions at the site and ranges from SDC A (very small seismic vulnerability) to SDC E/F (very high seismic vulnerability and near a major fault). Design specifications are then determined according to the SDC.

The proposed project would be required to comply with the CBC, including Part 2, Volume 2, Chapter 18, Soils and Foundations, which outlines the minimum standards for structural design and construction. This includes a geotechnical evaluation, which among other requirements, includes a record of the soil profile, regulation of active faults, recommendations for foundation type and design criteria that address applicable issues such as, but not limited to, bearing capacity of soils, provisions to address expansive soils, settlement, and varying soil strength. If a building department or other appropriate enforcement agency, determines that recommended action(s) presented in the geotechnical evaluations are likely to prevent structural damage, the approved recommended action(s) must be made a condition to the building permit (Chapter 18, Section 1803.1.1.3).

The CBC provides standards for various aspects of construction, including, but not limited to, excavation, grading, and earthwork construction; preparation of the site prior to fill placement; specification on fill materials and fill compaction and field testing; retaining wall design and construction; foundation design and construction; and seismic requirements. It includes provisions to address issues such as, but not limited to, construction on expansive soils and soil strength loss. Pursuant to California law, project design and construction would be required to comply with provisions of the CBC.

The CBC is updated every three years by order of the legislature, with supplements published in intervening years. State law mandates that local governments enforce the CBC. In addition, a city and/or county may establish more restrictive building standards reasonably necessary because of local climatic, geological, or topographical conditions. The 2022 CBC, which took effect on January 1, 2023, adds regulations for the use of tall wood and mass timber, accessibility of public buildings, interior environment design, and structural design. The proposed project would adhere to the most current iteration of the CBC in effect at the time of project construction.

California Public Resources Code Section 5097.5

PRC Section 5097.5 states “no person shall knowingly and willfully excavate upon, or remove, destroy, injure or deface” any “vertebrate paleontological site” on public lands without the “permission of the public agency having jurisdiction over such lands.” As used in PRC Section 5097.5, “public lands” mean lands owned by or under the jurisdiction of the State or any city, county, district, authority, or public corporation, or any agency thereof. Consequently, public agencies are required to comply with PRC Section 5097.5 for their own activities, including construction and maintenance, as well as for permit actions (e.g., encroachment permits) undertaken by others.

California Division of the State Architect

Pursuant to California Government Code Section 4453.5, the California Division of the State Architect (DSA) has jurisdiction over the construction of State and school district buildings used by the public. California public K-12 schools must submit plans to the DSA to ensure they comply with code requirements and obtain DSA approval prior to the start of construction. One of DSA’s primary roles is the structural safety review of public school buildings to ensure the facilities meet seismic safety standards to withstand earthquakes and are compliant with the Field Act. Through Interpretation of Regulations documents, the DSA promotes uniform statewide criteria relating to the design, construction, and inspection of public schools. Interpretation of Regulations documents are neither regulatory nor enforceable as law but provide clarification of a wide variety of specific code requirements. Although compliance with these interpretations assists designers in presenting complete submittal packages, DSA also considers alternate materials and methods of construction proposed by design professionals. Provisions of Interpretation of Regulations documents are applicable to all projects under DSA’s jurisdiction, while decisions by DSA plan reviewers are applicable only to the specific project under review.

University of California

UC Seismic Safety Policy

The UC Seismic Safety Policy was created to provide an acceptable level of earthquake safety for students, employees, and the public who occupy University Facilities located in California. It requires facilities, at a minimum, to comply with current seismic provisions of the CBC for new buildings. The UC Seismic Safety Policy requires geotechnical investigations to be performed by, or in consultation with, a California-licensed Geotechnical Engineer, and must include consideration of the potential for, and likely magnitude of, seismically-induced ground failure hazards, including liquefaction, differential settlement, lateral spreading, earthquake-induced landslides, and surface faulting (University of California Office of the President 2021).

UC Facilities Manual Seismic Program Guidelines

The procedures and guidelines located in the UC Facilities Manual are a current and central source of information regarding guidance for UC Seismic Safety Policy compliance. The purpose of the UC Facilities Manual Seismic Program Guidelines is to highlight and clarify portions of the policy. These guidelines should not be used as a substitute for the policy. Where information in the policy and the Facilities Manual varies, campuses are to follow the most conservative approach for immediate and long-term safety and preservation of life. The UC Facilities Manual Seismic Program Guidelines will serve as a resource for the proposed project to maintain compliance with the UC Seismic Safety Policy (University of California Office of the President 2022).

University of California, Riverside

UCR Earthquake Plan

The Earthquake Plan is a component of UCR’s Emergency Operations Plan and provides guidance and direction in response to an earthquake event that possibly affects the campus. The objectives of the Earthquake Plan are to evaluate and determine if there is damage or an impact to the campus following an earthquake, define the strategies UCR will use in response to an earthquake that affects the campus community and disrupts normal campus operations, and to provide direction to emergency response activities by identifying key response objectives and actions. To facilitate planning efforts and develop appropriate response strategies, two specific earthquake scenarios (moderate earthquake and major earthquake) are identified in the Earthquake Plan with appropriate response phases (e.g., immediate response; ongoing response) and responsible parties.

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP does not contain any policies or objectives related to geology, soils, or paleontological resources.

Regional and Local

As noted in Section 4, Environmental Impact Analysis, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

City of Riverside General Plan

CITY OF RIVERSIDE PUBLIC SAFETY ELEMENT

The City’s General Plan Public Safety Element includes policies to minimize potential damage to existing and new structures and loss of life that may result from geologic and seismic hazards. These include ensuring that all new development in the City abides by the most recently adopted City and State seismic and geotechnical requirements (City of Riverside 2021).

CITY OF RIVERSIDE HISTORIC PRESERVATION ELEMENT

The City’s General Plan Historic Preservation Element includes the objective of using historic preservation principles as an equal component in the planning and development process. The City expressed policy commitments to protect sites of archeological and paleontological significance and ensure compliance with all applicable State and federal cultural resources protection and management laws in its planning and project review process (City of Riverside 2012).

City of Riverside Municipal Code

Riverside Municipal Code Section 17.28.030, *Dust Control/Erosion Control/Landscaping*, establishes standards for dust control during grading. Section 17.28.030 requires compliance with the South Coast Air Quality Management District Rule 403, Fugitive Dust, which requires implementation of best available dust control measures during project activities capable of generating fugitive dust. In addition, Section 17.28.030 sets forth project-specific erosion control measures, including maintenance of cut and fill slope faces greater than or equal to five vertical feet and compatibility of landscape materials with adjacent natural vegetation.

4.7.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Geology and Soils to assess the proposed project.

Would the proposed project:

- a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.
 - ii. Strong seismic ground shaking?
 - iii. Seismic-related ground failure, including liquefaction?
 - iv. Landslides?
- b. Result in substantial soil erosion or the loss of topsoil?
- c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?
- d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?
- e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?
- f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Methodology

To evaluate the potential impacts of the proposed project on geology and soils, the proposed project was analyzed in relation to known geologic hazards and features, including earthquake faults, ground failure, underlying geology, soils, and paleontological sensitivity. In determining the level of significance, the analysis assumes the proposed project would comply with relevant laws, regulations, and guidelines.

Project Impacts and Mitigation Measures

Threshold: a.i: Would the proposed project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?

Impact GEO-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT DIRECTLY OR INDIRECTLY CAUSE POTENTIAL SUBSTANTIAL ADVERSE EFFECTS, INCLUDING THE RISK OF LOSS, INJURY, OR DEATH INVOLVING RUPTURE OF A KNOWN EARTHQUAKE FAULT. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site is not located directly in an Alquist-Priolo Earthquake Fault Zone. The closest Alquist-Priolo Earthquake Fault Zone is the San Jacinto Fault Zone, approximately 5.2 miles northeast of the project site. At this distance, there is low potential that ground rupture associated with this fault would occur on the project site. Furthermore, development on the project site would not involve any operations that require deep excavations or boring of a large area that could create unstable seismic conditions or stresses in the Earth's crust. Proper engineering and construction in conformance with the CBC standards, UC Seismic Safety Policy Requirements, geotechnical recommendations, and CGS review in compliance with Interpretation of Regulations A-4 would ensure impacts related to rupture of a known earthquake fault would be reduced to less-than-significant levels. Therefore, the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold a.ii.: Would the proposed project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking?

Impact GEO-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT DIRECTLY OR INDIRECTLY CAUSE POTENTIAL SUBSTANTIAL ADVERSE EFFECTS, INCLUDING THE RISK OF LOSS, INJURY OR DEATH INVOLVING STRONG SEISMIC GROUND SHAKING. IMPACTS WOULD BE LESS THAN SIGNIFICANT IMPACT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site is not located directly in an Alquist-Priolo Earthquake Fault Zone. The closest Alquist-Priolo Earthquake Fault Zone is the San Jacinto Fault Zone, approximately 5.2 miles northeast of the project site. Although the project site is not located within an active fault, the project site is located in a seismically active area, as is the majority of southern California. As such, nearby earthquake faults could produce strong seismic ground shaking at the project site in the event of an earthquake. However, the proposed project would be required to comply with the UC Seismic Safety Policy, CBC, and Title 5 of the California Code of Regulations, and would be subject to

CGS review in compliance with Interpretation of Regulations A-4. The UC Seismic Safety Policy addresses interior and exterior building elements that may fall or slide during an earthquake and requires anchorage for seismic resistance of nonstructural building elements such as furnishings, fixtures, material storage facilities, and utilities that could dislodge, fall, or rupture during an earthquake. The CBC provides earthquake design requirements, including earthquake loading specifications for design and construction to resist effects of earthquake motions in accordance with the ASCE Standard 7-05. The proposed project would be designed to comply with both of these regulatory requirements, including standards involving, but not limited to, excavation, grading and earthwork, fills and embankments, expansive soils, foundation investigations, liquefaction potential, and soil strength loss. Through compliance with the UC Seismic Safety Policy and the CBC, the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury or death involving strong seismic ground shaking. Additionally, the UC Building Official and Division of the State Architect would review plans for compliance with design and construction and accessibility standards and codes, including seismic requirements. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold a.iii.: Would the proposed project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction?

Impact GEO-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT DIRECTLY OR INDIRECTLY CAUSE POTENTIAL SUBSTANTIAL ADVERSE EFFECTS, INCLUDING THE RISK OF LOSS, INJURY OR DEATH INVOLVING SEISMIC-RELATED GROUND FAILURE, INCLUDING LIQUEFACTION. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Generally, liquefaction potential varies based upon three main contributing factors: density of soil, shallow groundwater (less than 50 feet), and moderate to high seismic shaking. As previously noted, the project site is mapped as having low potential for liquefaction as are the surrounding properties to the north, west, south, and east (UCR 2021). Project compliance with the UC Facilities Manual Seismic Program Guidelines and UC Seismic Safety Policy would be required to reduce or eliminate seismic ground failure impacts, including liquefaction. Furthermore, the proposed project would be subject to evaluation for liquefaction risk under the oversight of CGS and the DSA, and the proposed project would comply with CBC requirement to ensure current engineering practices and standards are followed, thereby minimizing the risk of adverse effects from liquefaction. Therefore, the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury or death involving seismic-related ground failure, including liquefaction, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold a.iv.: Would the proposed project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides?

Impact GEO-4 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT DIRECTLY OR INDIRECTLY CAUSE POTENTIAL SUBSTANTIAL ADVERSE EFFECTS, INCLUDING THE RISK OF LOSS, INJURY OR DEATH INVOLVING LANDSLIDES. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Landslides are a type of erosion in which masses of earth and rock move down slope as a single unit. Susceptibility of slopes to landslides and other forms of slope failure depend on several factors. These factors are usually present in combination and include steep slopes, condition of rock and soil materials, the presence of water, formational contacts, geologic shear zones, and seismic activity.

The UCR campus is not in an area susceptible to landslides, and the campus is not in the path of any known or potential landslides (UCR 2021). The project site is located on relatively flat and level topography, and surrounding properties exhibit no substantial elevation changes or unusual geologic features that would otherwise be prone to landslides. In addition, the proposed project does not include elements that could exacerbate landslide risk, such as the steepening of a slope. Therefore, the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury or death involving landslides, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project result in substantial soil erosion or the loss of topsoil?

Impact GEO-5 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN SUBSTANTIAL SOIL EROSION OR THE LOSS OF TOPSOIL. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Soil erosion or the loss of topsoil occurs when soils are disturbed due to wind and rain events. Wind or rain events may mobilize disturbed soils, resulting in their transport off site. Ground disturbing activities associated with the proposed project (e.g., demolition, grading) would have the potential to result in the removal and erosion of topsoil. However, because the proposed project would disturb more than one acre of land, construction activities would be subject to the NPDES Construction General Permit, which requires the development and implementation of a SWPPP by a certified Qualified SWPPP Developer. The SWPPP would include project-specific BMPs to control erosion, sediment release, and otherwise reduce the potential for discharge of pollutants from construction into stormwater. Typical BMPs include, but are not limited to, installation of silt fences, erosion control blankets, and anti-tracking pads at site exits to prevent off-site transport of soil materials. Furthermore, the proposed project would be required to comply with the provisions of

Riverside Municipal Code Title 17 (Grading), which includes erosion control standards and requires implementation of project-specific erosion control measures, and South Coast Air Quality Management District's Rule 403, *Fugitive Dust*, which requires implementation of best available dust control measures during project activities capable of generating fugitive dust. Adherence to these regulations would minimize the potential for substantial soil erosion or the loss of topsoil to occur. After completion of the proposed project, ground surfaces would be either hardscape or maintained landscaping, and no large areas of exposed soils would be left to erode off the site. Therefore, the proposed project would not result in substantial soil erosion or the loss of topsoil, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold c: Would the proposed project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

Impact GEO-6 THE PROPOSED PROJECT WOULD NOT BE LOCATED ON A GEOLOGIC UNIT OR SOIL THAT IS UNSTABLE, OR THAT WOULD BECOME UNSTABLE AS A RESULT OF THE PROJECT. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As discussed under Impact GEO-2 and Impact GEO-4, the project site is located on relatively flat land with low liquefaction potential and thus is not subject to landslide or liquefaction risk. In addition, no areas of subsidence in the City, including the project site, are noted in the City's General Plan Public Safety Element (City of Riverside 2021). The proposed project would be required to comply with the CBC's minimum standards for structural design and site development and the UC Seismic Safety Policy. These regulations include standards for excavation, grading, fills, embankments, expansive soils, foundation investigations, liquefaction potentials, and soil strength. Incorporation of the required soil treatment programs (e.g., replacement, grouting, compaction, drainage control) in excavation and construction plans would ensure site-specific soil conditions achieve accepted safety standards relative to soil stability. The proposed project would also be required to comply with the provisions of Riverside Municipal Code Title 17 (Grading) to further achieve soil stability on site. Therefore, the proposed project would not be located on a geologic unit that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold d: Would the proposed project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Impact GEO-7 IMPLEMENTATION of THE PROPOSED PROJECT WOULD NOT CREATE SUBSTANTIAL DIRECT OR INDIRECT RISKS TO LIFE OR PROPERTY AS A RESULT OF ITS LOCATION ON EXPANSIVE SOIL. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Expansive soils are those that greatly increase in volume when they absorb water and shrink when they dry out, resulting in the potential for cracked building foundations and in some cases, structural distress of buildings themselves. The project site is composed of Buren fine sandy loam, 2 to 8 percent slopes, eroded, which the City identifies as having a moderate shrink-swell potential (City of Riverside 2007; USDA 2022). However, the proposed project involves construction of a STEM Education Center to serve students in grades 9 through 12 and therefore must submit project plans to the UCR Building Official, CGS and DSA to ensure they comply with Title 24 of the California Code of Regulations and obtain UCR Building Official, CGS and DSA approval before construction begins. In order to comply with DSA standards, an applicant must show allowable soil bearing pressure and type of soil, including provisions to mitigate the effects of expansive soils (DSA 2021). In order to obtain UCR Building Official, CGS and DSA approval, RUSD would be required to implement recommendations provided by a geotechnical engineer to reduce the risk posed by expansive soil conditions. Therefore, with regulatory compliance, the proposed project would not create substantial direct or indirect risks to life or property as a result of potentially expansive soil conditions on site. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold e: Would the proposed project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

Impact GEO-8 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT REQUIRE THE USE OF SEPTIC TANKS OR ALTERNATIVE WASTEWATER DISPOSAL SYSTEMS. NO IMPACT WOULD OCCUR, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site would be served by the City of Riverside Public Works Department Sewage Systems Division, which collects, treats, and disposes of all wastewater generated by the UCR campus, including the project site (UCR 2019). The project would not require the use of septic tanks or alternative wastewater disposal systems. Therefore, **no impact** would occur.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

No impacts would occur without mitigation.

Threshold f: Would the proposed project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Impact GEO-9 IMPLEMENTATION OF THE PROPOSED PROJECT COULD DIRECTLY OR INDIRECTLY DESTROY A UNIQUE PALEONTOLOGICAL RESOURCE OR SITE OR UNIQUE GEOLOGIC FEATURE. IMPLEMENTATION OF MITIGATION MEASURE MM GEO-1 WOULD BE REQUIRED TO REDUCE IMPACTS TO LESS THAN SIGNIFICANT.

As shown in Figure 4.7-1 in Section 4.7.2, *Existing Conditions*, the project site is underlain by old alluvial fan deposits and very old alluvial fan deposits, which are assigned a high paleontological sensitivity. No unique geologic features exist within the project site.

Ground-disturbing construction activities associated with the proposed project that impact previously undisturbed sediments with high paleontological sensitivity could result in significant impacts to paleontological resources. Impacts would be significant if construction activities result in the destruction, damage, or loss of scientifically important paleontological resources and associated stratigraphic and paleontological data. The project site is underlain by old alluvial fan deposits and very old alluvial fan deposits (Figure 4.7-1). Grading for the location of the proposed STEM Education Center is expected to reach up to approximately six feet below the ground surface and excavate approximately 33,000 cubic yards of sediment. The T-Mobile Cell Tower Relocation Area is also underlain by very old alluvial fan deposits and would require excavations in previously undisturbed sediments to secure the re-located cell tower. The utilities improvement alignment is underlain by old alluvial fan deposits and very old alluvial fan deposits, and trenching for installation of the proposed utilities improvements may require excavation in previously undisturbed sediments. Therefore, proposed project construction may directly or indirectly destroy a unique paleontological resource or site, and impacts would be potentially significant without mitigation. However, implementation of **Mitigation Measure MM GEO-1** would reduce potential impacts to **less than significant with mitigation incorporated** by requiring implementation of a Worker Environmental Awareness Program (WEAP) training, monitoring, and salvage and curation if any paleontological resources are encountered.

Mitigation Measures

The following mitigation measure would be required to address potential impacts to paleontological resources.

MM GEO-1 Paleontological Resources Monitoring and Mitigation

The following measures shall be implemented prior to and during project construction:

- **Qualified Professional Paleontologist/Paleontological Resources Impact Mitigation Plan.** Prior to the initiation of ground-disturbing activities during construction, RUSD, in coordination with UCR, shall retain a Qualified Professional Paleontologist. A Qualified Professional Paleontologist is an individual who meets the education and professional experience standards as established by the SVP (2010), which recommends the paleontologist shall have at least a master's degree or equivalent work experience in paleontology, shall have knowledge of the local paleontology, and shall be familiar with paleontological procedures and techniques. The Qualified Professional Paleontologist shall prepare and implement a Paleontological Resources Impact Mitigation Plan for the project. The Paleontological Resources Impact Mitigation Plan shall describe mitigation recommendations in detail, including paleontological monitoring procedures; communication protocols to be followed in the event that an unanticipated fossil discovery is made during

project development; and preparation, curation, and reporting requirements. A copy shall be provided to RUSD and UCR Planning, Design & Construction staff.

- **Paleontological Worker Environmental Awareness Program (WEAP).** Prior to the start of construction, the Qualified Professional Paleontologist or their designee shall conduct a paleontological WEAP training for construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction staff.
- **Paleontological Monitoring.** Full-time paleontological monitoring shall be conducted during ground disturbing construction activities (i.e., grading, trenching, foundation work). Paleontological monitoring shall be conducted by a paleontological monitor with experience with collection and salvage of paleontological resources and who meets the minimum standards of the SVP (2010) for a Paleontological Resources Monitor. The duration and timing of the monitoring shall be determined by the Qualified Professional Paleontologist based on the observation of the geologic setting from initial ground disturbance, and subject to review and approval by UCR. If the Qualified Professional Paleontologist determines full-time monitoring is no longer warranted, based on the specific geologic conditions, they may recommend monitoring be reduced to periodic spot-checking or ceased entirely.
- **Unanticipated Discovery of Paleontological Resources.** In the event of a fossil discovery by the paleontological monitor or construction personnel, the contractor shall ensure all work in the immediate vicinity of the find is halted and UCR/RUSD is informed. A Qualified Professional Paleontologist shall evaluate the find before the contractor authorizes construction activity to re-commence. If it is determined the fossil(s) is (are) scientifically significant, the Qualified Professional Paleontologist shall complete the following conditions to mitigate impacts to significant fossil resources:
 - **Fossil Salvage.** If fossils are discovered, the paleontological monitor shall have the authority to halt or temporarily divert construction equipment within 50 feet of the find until the paleontological monitor and/or Qualified Professional Paleontologist evaluate the discovery and determine if the fossil may be considered significant. Bulk matrix sampling may be necessary to recover small invertebrates or microvertebrates from within paleontologically sensitive deposits
 - **Fossil Preparation and Curation.** Once salvaged, significant fossils shall be identified to the lowest possible taxonomic level, prepared to a curation-ready condition, and curated in a scientific institution with a permanent paleontological collection along with all pertinent field notes, photos, data, and maps. Fossils of undetermined significance at the time of collection may also warrant curation at the discretion of the Qualified Professional Paleontologist.
- **Final Paleontological Mitigation Report.** Upon completion of ground disturbing activity (and curation of fossils if necessary), the Qualified Professional Paleontologist shall prepare a final report describing the results of the paleontological monitoring efforts associated with the project. The report shall include a summary of the field and laboratory methods, an overview of the project geology and paleontology, a list of taxa recovered (if any), an analysis of fossils recovered (if any) and their scientific significance, and recommendations. The report shall be submitted to UCR. If the monitoring efforts produce fossils, then a copy of the report shall also be submitted to the designated museum repository.

Significance After Mitigation

Implementation of **Mitigation Measure MM GEO-1** would reduce potential impacts to paleontological resources to a **less than significant level** by minimizing the potential for project construction to result in adverse effects to paleontological resources.

4.7.5 Cumulative Impacts

The cumulative setting for geology and soils impacts is the area within a five-mile radius of the project site, consistent with Table 4-1 of Section 4, *Environmental Impact Analysis*. Pursuant to CEQA Guidelines Section 15130(a)(1), an EIR should not discuss cumulative impacts which do not result in part from the proposed project. As described under Impact GEO-8, the proposed project would result in no impacts related to septic systems/alternative wastewater disposals systems. Therefore, the project would result in **no cumulative impacts** related to septic systems/alternative wastewater disposal systems when combined with other projects.

The remaining geology and soils impacts are related to increased exposure to rupture of known earthquake faults and seismic ground shaking and liquefaction, landslides, increased erosion and/or loss of topsoil, the presence of unstable/expansive soils, and paleontological resources. Individual projects and developments in the cumulative setting area would be subject to geologic hazards independently of one another based on site-specific conditions and project design. Compliance with the UC Facilities Manual Seismic Program Guidelines and UC Seismic Safety Policy and existing regulations, such as the CBC, specify mandatory actions that must occur during project development, which would minimize impacts related to geologic hazards. Development projects are also required to undergo analysis of geological and soil conditions applicable to each development in question, and restrictions on development would be applied if conditions pose a risk to safety. Thus, cumulative impacts related to geologic hazards, including rupture of known earthquake faults, seismic ground shaking, liquefaction, landslides, and unstable/expansive soils, would be **less than significant**.

Cumulative impacts related to soil erosion and the loss of topsoil would be minimized through compliance with the NPDES Construction General Permit, which requires the creation and implementation of a SWPPP and corresponding BMPs for projects greater than one acre in size to limit the potential for soil erosion. Furthermore, all projects within the City would be subject to the erosion control measures listed within Riverside Municipal Code Section 17.28.030, which requires compliance with South Coast Air Quality Management District Rule 403 and other project-specific design features to minimize erosion (City of Riverside 2022). Thus, with regulatory compliance, cumulative impacts related to soil erosion and the loss of topsoil would be **less than significant**.

The potential for impacts to paleontological resources from individual developments is site-specific and depends on the location and extent of ground disturbance associated with each individual development proposal. Areas throughout the region would continue to develop, as described in the City's General Plan, and involve grading and excavation activities that would potentially encounter paleontological resources. All future development projects would continue to be subject to existing State and local requirements and projects may be subject to project-specific mitigation requirements under CEQA. Ground-disturbing activities associated with the project have the potential to result in the destruction, damage, or loss of undiscovered scientifically important paleontological resources due to the high paleontological sensitivity of the underlying geologic units. Therefore, the proposed project's contribution to cumulative impacts (Impact GEO-9) is considered cumulatively considerable without mitigation. Implementation of **Mitigation Measure**

MM GEO-1 would minimize the potential for the proposed project to cause a substantial adverse change in known or unknown paleontological resources by requiring a paleontological WEAP training for all construction personnel, construction monitoring, and procedures for unanticipated discoveries. Therefore, the proposed project's contribution to cumulative impacts related to the destruction, damage, or loss of undiscovered scientifically important paleontological resources would be **less than significant with mitigation (not cumulatively considerable)**.

4.7.6 References

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4.8 Greenhouse Gas Emissions

4.8.1 Introduction

This section describes existing conditions related to greenhouse gas (GHG) emissions and climate change and addresses the potential for implementation of the proposed project to result in impacts associated with GHG emissions. The analysis in this section is based on GHG emissions modeling outputs that are included in Appendix C of this EIR.

4.8.2 Existing Conditions

Overview of Climate Change and GHG Emissions

Climate Change

Climate change is the observed increase in the average temperature of the Earth's atmosphere and oceans along with other substantial changes in climate (such as wind patterns, precipitation, and storms) over an extended period. Climate change is the result of numerous, cumulative sources of GHG emissions contributing to the "greenhouse effect," a natural occurrence that takes place in Earth's atmosphere and helps regulate the temperature of the planet. The majority of radiation from the sun hits Earth's surface and warms it. The surface, in turn, radiates heat back towards the atmosphere in the form of infrared radiation. Gases and clouds in the atmosphere trap and prevent some of this heat from escaping into space and re-radiate it in all directions.

GHG emissions occur both naturally and from human activities, such as fossil fuel combustion, decomposition of landfill wastes, raising livestock, deforestation, and some agricultural practices. GHGs produced by human activities include carbon dioxide (CO₂), methane (CH₄), nitrous oxides (N₂O), hydrofluorocarbons (HFC), perfluorocarbons (PFC), and sulfur hexafluoride (SF₆). Different types of GHGs have varying global warming potentials (GWP). The GWP of a GHG is the potential of a gas or aerosol to trap heat in the atmosphere over a specified timescale (generally, 100 years). Because GHGs absorb different amounts of heat, a common reference gas (CO₂) is used to relate the amount of heat absorbed to the amount of the gas emitted, referred to as "carbon dioxide equivalent" (CO₂e), which is the amount of GHG emitted multiplied by its GWP. Carbon dioxide has a 100-year GWP of one. By contrast, methane has a GWP of 30, meaning its global warming effect is 30 times greater than CO₂ on a molecule per molecule basis (Intergovernmental Panel on Climate Change [IPCC] 2021).¹

The United Nations IPCC expressed that the rise and continued growth of atmospheric CO₂ concentrations is unequivocally due to human activities in the IPCC's Sixth Assessment Report (2021). Human influence has warmed the atmosphere, ocean, and land, which has led the climate to warm at an unprecedented rate in the last 2,000 years. It is estimated that between the period of 1850 through 2019, a total of 2,390 gigatonnes of anthropogenic CO₂ was emitted. It is likely anthropogenic activities have increased the global surface temperature by approximately 1.07 degrees Celsius between the years 2010 through 2019 (IPCC 2021). Furthermore, since the late 1700s, estimated concentrations of CO₂, methane, and nitrous oxide in the atmosphere have increased by over 43 percent, 156 percent, and 17 percent, respectively, primarily due to human

¹ The Intergovernmental Panel on Climate Change's (2021) *Sixth Assessment Report* determined that methane has a GWP of 30. However, the 2017 Climate Change Scoping Plan published by the California Air Resources Board uses a GWP of 25 for methane, consistent with the Intergovernmental Panel on Climate Change's (2007) *Fourth Assessment Report*. Therefore, this analysis utilizes a GWP of 25.

activity (United States Environmental Protection Agency [USEPA] 2022a). Emissions resulting from human activities are thereby contributing to an average increase in Earth's temperature. Potential climate change impacts in California may include loss of snowpack, sea level rise, more extreme heat days per year, more high ozone days, more large forest fires, and more drought years (IPCC 2018).

Greenhouse Gases

Gases that absorb and re-emit infrared radiation in the atmosphere are called GHGs. The gases that are widely seen as the principal contributors to human-induced climate change include CO₂, CH₄, N₂O, fluorinated gases such as HFCs and PFCs, and SF₆. Water vapor is excluded from the list of GHGs because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation. The following discusses the primary GHGs of concern.

CARBON DIOXIDE

Carbon dioxide is the primary GHG emitted by human activities. In 2020, CO₂ accounted for about 79 percent of all U.S. GHG emissions from human activities. CO₂ is naturally present in the atmosphere as part of the Earth's carbon cycle (the natural circulation of carbon among the atmosphere, oceans, soil, plants, and animals). Human activities are altering the carbon cycle, both by adding more CO₂ to the atmosphere and by influencing the ability of natural sinks, like forests and soils, to remove and store CO₂ from the atmosphere. While CO₂ emissions come from a variety of natural sources, human-related emissions are responsible for the increase that has occurred in the atmosphere since the industrial revolution (USEPA 2022a).

METHANE

Methane is a colorless, odorless gas and is the major component of natural gas. In 2020, CH₄ accounted for about 11 percent of all U.S. GHG emissions from human activities. Human activities emitting methane include leaks from natural gas systems and the raising of livestock. Methane is also emitted by natural sources, such as natural wetlands. In addition, natural processes in soil and chemical reactions in the atmosphere help remove CH₄ from the atmosphere. Methane's lifetime in the atmosphere is much shorter than CO₂, but CH₄ is more efficient at trapping radiation than CO₂ (USEPA 2022a).

NITROUS OXIDE

Nitrous oxide is a clear, colorless gas with a slightly sweet odor. In 2020, N₂O accounted for about seven percent of all U.S. GHG emissions from human activities. Human activities such as agriculture, fuel combustion, wastewater management, and industrial processes are increasing the amount of N₂O in the atmosphere. Nitrous oxide is also naturally present in the atmosphere as part of the Earth's nitrogen cycle and has a variety of natural sources. Nitrous oxide molecules stay in the atmosphere for an average of 114 years before being removed by a sink or destroyed through chemical reactions (USEPA 2022a).

FLUORINATED GASES (HFCs, PFCs AND SF₆)

Unlike many other GHGs, fluorinated gases have no natural sources and are produced solely by human-related activities. They are emitted through their use as substitutes for ozone-depleting substances (e.g., as refrigerants) and through a variety of industrial processes, such as aluminum

and semiconductor manufacturing. Many fluorinated gases have very high GWPs relative to other GHGs, meaning that small atmospheric concentrations can have disproportionately large effects on global temperatures. They can also have long atmospheric lifetimes, lasting thousands of years in some cases. Like other long-lived GHGs, most fluorinated gases are well-mixed in the atmosphere, spreading around the world after they are emitted. Many fluorinated gases are removed from the atmosphere only when they are destroyed by sunlight in the far upper atmosphere. In general, fluorinated gases are the most potent and longest-lasting type of GHGs emitted by human activities (USEPA 2022a).

Greenhouse Gas Emissions Inventories

UNITED STATES EMISSIONS INVENTORY

Total U.S. GHG emissions were 6,558 million metric tons (MMT) of CO₂e in 2019.² Emissions decreased by 1.7 percent from 2018 to 2019; since 1990, total U.S. emissions have increased by an average annual rate of 0.06 percent for a total increase of 1.8 percent between 1990 and 2019. The decrease from 2018 to 2019 reflects the combined influences of several long-term trends, including population changes, economic growth, energy market shifts, technological changes such as improvements in energy efficiency, and reduced carbon intensity of energy fuel choices. In 2019, the industrial and transportation end-use sectors accounted for 30 percent and 29 percent, respectively, of nationwide GHG emissions while the commercial and residential end-use sectors accounted for 16 percent and 15 percent, respectively, with electricity emissions distributed among the various sectors (USEPA 2022b).

CALIFORNIA EMISSIONS INVENTORY

Based on the California Air Resources Board (CARB) California GHG Inventory for 2000-2019, California produced 418.2 MMT of CO₂e in 2019 (CARB 2021).³ The largest single source of GHG emissions in California is transportation, contributing 40 percent of the State's total GHG emissions. Industrial sources are the second-largest source of the State's GHG emissions, contributing 21 percent (CARB 2021). The magnitude of California's total GHG emissions is due in part to its large size and large population compared to other states. However, a factor that reduces California's per capita fuel use and GHG emissions as compared to other states is its relatively mild climate. In 2016, the State of California achieved its 2020 GHG emission reduction target of reducing emissions to 1990 levels as emissions fell below 431 MMT of CO₂e (CARB 2021). The annual 2030 statewide target emissions level is 226 MMT of CO₂e (CARB 2022a).

Climate Change Trends and Effects

Globally, climate change has the potential to affect numerous environmental resources through impacts related to future air temperatures and precipitation patterns. Scientific modeling predicts continued GHG emissions at or above current rates would induce more extreme climate changes during the 21st century than were observed during the 20th century. Each of the past three decades has been warmer than all the previous decades in the instrumental record, with 2013 to 2021 among warmest years from 1880 to 2021. The average global land and ocean surface temperature for January to December 2021 was 0.83°C (1.49 degrees Fahrenheit [°F]) above the 20th century

² The 2020 U.S. GHG emissions inventory is available; however, it is not discussed in this analysis because 2020 emissions were substantially influenced by the COVID-19 pandemic and therefore not characteristic of "normal" conditions.

³ The 2020 California GHG emissions inventory is available; however, it is not discussed in this analysis because 2020 emissions were substantially influenced by the COVID-19 pandemic and therefore not characteristic of "normal" conditions.

average of 13.9°C (57.0°F) (National Oceanic and Atmospheric Administration 2022). Furthermore, several independently analyzed data records of global and regional Land-Surface Air Temperature obtained from station observations jointly indicate Land-Surface Air Temperature and sea surface temperatures have increased. Due to past and current activities, anthropogenic GHG emissions are increasing global mean surface temperature at a rate of 0.2°C per decade. In addition to these findings, there are identifiable signs global warming is currently taking place, including substantial ice loss in the Arctic over the past two decades (IPCC 2014 and 2018).

CALIFORNIA

According to *California's Fourth Climate Change Assessment*, statewide temperatures from 1986 to 2016 were approximately 1°F to 2°F higher than those recorded from 1901 to 1960. Potential impacts of climate change in California may include loss in water supply from snowpack, sea level rise, more extreme heat days per year, more large forest fires, and more drought years. While there is growing scientific consensus about the possible effects of climate change at a global and statewide level, current scientific modeling tools are unable to predict what local impacts may occur with a similar degree of accuracy (State of California 2018a).

In California, climate change may result in consequences such as the following (State of California 2018a):

- **A reduction in the quality and supply of water from the Sierra snowpack.** If heat-trapping emissions continue unabated, more precipitation will fall as rain instead of snow, and snow that does fall will melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90 percent. This may lead to challenges in securing adequate water supplies as well as a potential reduction in hydropower.
- **Increased risk of large wildfires.** If rain increases as temperatures rise, wildfires in the forests, grasslands and chaparral ecosystems of Southern California are estimated to increase by approximately 30 percent toward the end of the 21st century because more winter rain will stimulate the growth of more plant “fuel” available to burn in the fall. In contrast, a hotter, drier climate could promote up to 90 percent more northern California fires by the end of the century by drying out and increasing the flammability of forest vegetation.
- **Reductions in the quality and quantity of certain agricultural products.** The crops and products likely to be adversely affected by climate change include wine grapes, fruit, nuts, and milk, which may experience decreased quality and quantity.
- **Exacerbation of air quality problems.** If temperatures rise to the medium warming range, there could be 75 to 85 percent more days with weather conducive to ozone formation in Los Angeles and the San Joaquin Valley, as compared to current conditions. This is more than twice the increase expected if rising temperatures remain in the lower warming range. This increase in air quality problems could result in an increase in asthma and other health-related problems.
- **A rise in sea levels resulting in the displacement of coastal businesses and residences.** During the past century, sea levels along California’s coast have risen about seven inches. If emissions continue unabated and temperatures rise into the higher anticipated warming range, sea level is expected to rise an additional 22 to 35 inches by the end of the century. Elevations of this magnitude would inundate coastal areas with salt water, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats.

- **An increase in temperature and extreme weather events.** Climate change is expected to lead to increases in the frequency, intensity, and duration of extreme heat events and heat waves in California. More heat waves can exacerbate chronic disease or heat-related illness.
- **A decrease in the health and productivity of California's forests.** Climate change may cause an increase in wildfires, an enhanced nuisance insect population, and establishment of non-native species, thereby leading to a decrease in the health and productivity of California's forests.
- **Damage to marine ecosystems and natural environment.** Climate change may cause damage to marine ecosystems and the natural environment, including acidification of the oceans due to increased CO₂ levels (including coral bleaching).

GREATER LOS ANGELES REGION

In addition to statewide projections, *California's Fourth Climate Change Assessment* includes regional reports that summarize climate impacts and adaptation solutions for nine regions of the State as well as regionally-specific climate change case studies, including for the greater Los Angeles region that includes western Riverside County where the project site is located. Below is a summary of some of the potential effects that could be experienced in the greater Los Angeles region because of climate change (State of California 2018b):

- **Air Quality.** In the greater Los Angeles region, changes in meteorological conditions under climate change will affect future air quality. Regional stagnation conditions may occur more often in the future, which would increase pollutant concentrations. Hotter future temperatures will act to increase surface ozone concentrations, due to chemistry producing both more ozone and higher rates of biogenic emissions, while increases of water vapor will also influence chemistry by increasing ozone production in already polluted areas.
- **Water Supply.** Like the rest of the State, the greater Los Angeles region is expected to face a challenging combination of decreased water supply and increased water demand. More interannual variability of rainfall and sharp decreases in snowpack will create surface water limitations for the region. Although the effect of climate change on average precipitation in the region is still unclear, more frequent occurrences of extreme events similar to the 2011-2016 drought could significantly decrease groundwater recharge, which is essential for the sustainability of agriculture in the region because the vast majority of water used in agriculture in the region is groundwater from local wells. Furthermore, higher temperatures mean that dry years will more quickly develop into severe drought conditions.
- **Hydrology and Sea Level Rise.** In the greater Los Angeles region, despite small changes in average precipitation, dry and wet extremes are both expected to increase. By the late 21st century, the wettest day of the year is expected to increase across most of the region. Increased frequency and severity of atmospheric river events are also projected to occur for this region.
- **Agriculture.** In the greater Los Angeles region, more frequent droughts could significantly decrease groundwater recharge and therefore impact agricultural operations that use groundwater from local wells. This and other climate effects can contribute to higher food prices and shortages. In addition, pest and disease issues with crops are anticipated to increase.
- **Ecosystems and Wildfire.** Many of the impacts identified above would impact ecosystems and wildlife in the greater Los Angeles region. Increases in wildfire would further remove sensitive habitat; increased severity in droughts would potentially starve plants and animals of water; and sea level rise will affect sensitive coastal ecosystems (State of California 2018b).

Campus and Project Site Setting

UCR Main Campus GHG Inventory

UCR prepared an inventory for main campus 2018 GHG emissions.⁴ The inventory includes emissions from all main campus facilities and sources. UCR categorizes GHG emissions into three “scopes” based on the nature and source of the emissions and consistent with CARB Climate Change Scoping Plan approach. The following scope emissions are included in the UCR 2018 inventory:

- **Scope 1 Emissions:** Direct emissions, including stationary combustion such as boilers (e.g., UCR Central Plant) and HFC refrigerant use as well as non-stationary combustion of fuels in University-owned vehicles.
- **Scope 2 Emissions:** Indirect stationary sources, including emissions from purchased electricity and purchased steam for leased facilities.
- **Scope 3 Emissions:** Other indirect emissions from business air travel and from commuting by students, faculty, and staff. Scope 3 is defined as emissions that are a consequence of the activities of the institution but occur from sources not owned or controlled by the institution.

Total UCR GHG emissions were 97,232 MT of CO₂e in 2018. The largest component was Scope 2 emissions, which account for 45,834 MT of CO₂e (47 percent) of emissions. Scope 3 emissions were the second largest, accounting for 31,263 MT of CO₂e (32 percent) of emissions. Scope 1 emissions were the smallest component, accounting for 20,136 MT of CO₂e (21 percent) of emissions (UCR 2021a).

Riverside Public Utilities

Riverside Public Utilities, a publicly owned local water and electricity utility, provides electric power to UCR. Electricity supplied by Riverside Public Utilities consists of renewable and nonrenewable sources. Renewable sources include geothermal, hydroelectric, solar, wind, and other renewables. Riverside Public Utilities’ internal electricity generation includes coal, large hydroelectric, natural gas, nuclear, and other generic power. Section 4.6, *Energy*, provides additional details on the composition of Riverside Public Utilities’ electricity generation.

Existing GHG Emissions Sources

Existing GHG emission sources at the project site include electricity usage for field lighting and the existing cell towers as well as vehicle trips by users and maintenance staff of the on-site recreational field, as well as infrequent visits by maintenance staff for the cell towers. Maintenance of the existing recreational field also generates emissions from the use of landscaping equipment and conveyance of water for irrigation.

4.8.3 Regulatory Framework

Additional regulatory information related to GHG emissions is included throughout other resource sections including Section 4.19, *Utilities and Service Systems*, which includes discussion of water use efficiency standards, solid waste standards, and wastewater standards; Section 4.3, *Air Quality*, which includes discussion of air-quality related regulations; and Section 4.6, *Energy*, which includes discussion of energy efficiency requirements.

⁴ The boundaries for the UCR 2018 GHG inventory are limited to the geographic and operational boundary of the 2021 LRDP, which encompasses the approximately 1,108 contiguous acres constituting the UCR main campus.

International

Paris Climate Change Agreement

Parties to the United Nations Framework Convention on Climate Change reached an agreement on December 12, 2015 in Paris, charting a new course in the global climate effort. The treaty commits member countries to put forward their best efforts and to strengthen them in the years ahead, including requirements that all parties report regularly on their emissions and implementation efforts and undergo international review. The agreement and a companion decision by parties, known as the 21st session of the United Nations Framework Convention on Climate Change Conference of the Parties, or “COP 21” were the key outcomes that reaffirmed the goal of limiting global temperature increase below 2°C while urging efforts to limit the increase to 1.5°C and established binding commitments by all parties to make nationally determined contribution and to pursue domestic measures aimed at achieving them.

Federal

Clean Air Act

On April 2, 2007, in *Massachusetts v. EPA* (549 U.S. 497 [2007]), the U.S. Supreme Court found GHGs are air pollutants covered by the Clean Air Act (CAA). The Court held the Administrator of the USEPA must determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. On December 7, 2009, the Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA:

- **Endangerment Finding:** The Administrator finds the current and projected concentrations of six GHGs (CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆) in the atmosphere threaten the public health and welfare of current and future generations.
- **Cause or Contribute Finding:** The Administrator finds the combined emissions of these GHGs from new motor vehicles and new motor vehicle engines contribute to GHG pollution, which threatens public health and welfare.

These findings do not themselves impose any requirements on industry or other entities. However, this action was a prerequisite for implementing GHG emission standards for vehicles (USEPA 2022c). In collaboration with the National Highway Traffic Safety Administration (NHTSA) and CARB, the USEPA developed emission standards for light-duty vehicles and heavy-duty vehicles (NHTSA et al. 2016; U.S. Government Publishing Office 2016).

Federal Fuel Efficiency Standards (CAFE)

Under the CAA, corporate average fuel economy (CAFE) standards have been set for passenger cars and light trucks. The State of California has traditionally had a waiver to set its own more stringent fuel efficiency standards. However, on August 2, 2018, the NHTSA and USEPA, operating under the direction of the Trump Administration, proposed the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule). This rule addresses emissions and fuel economy standards for motor vehicles and is separated into two parts as described below.

- Part One, “One National Program” (84 Federal Register 51310), revokes a waiver granted by USEPA to the State of California under Section 209 of the CAA to enforce more stringent emission standards for motor vehicles than those required by USEPA for the explicit purpose of

GHG reduction, and indirectly, criteria air pollutants and ozone precursor emission reduction. This revocation became effective on November 26, 2019, potentially restricting the ability of CARB to enforce more stringent GHG emission standards for new vehicles and set zero emission vehicle mandates in California.

- Part Two addresses CAFE standards for passenger cars and light trucks for model years 2021 to 2026. This rulemaking proposed new CAFE standards for model years 2022 through 2026 and would amend existing CAFE standards for model year 2021. The proposal retained the model year 2020 standards (specifically, the footprint target curves for passenger cars and light trucks) through model year 2026. The proposal addressing CAFE standards was jointly developed by NHTSA and USEPA, with USEPA simultaneously proposing tailpipe CO₂ standards for the same vehicles covered by the same model years.

The USEPA and NHTSA published final rules to amend and establish national CO₂ and fuel economy standards on April 30, 2020 (Part Two of the SAFE Vehicles Rule) (85 Federal Register 24174). On April 22, 2021, the Biden Administration formally proposed to roll back portions of the SAFE Rule, thereby restoring California's right to enforce more stringent fuel efficiency standards (NHTSA 2022). Most recently, on December 21, 2021, the NHTSA finalized rules to repeal the SAFE I Rule. The final rule concludes the SAFE I Rule overstepped the agency's legal authority and established overly broad prohibitions that did not account for a variety of important state and local interests. The final rule ensures the SAFE I Rule will no longer form an improper barrier to states exploring creative solutions to address their local communities' environmental and public health challenges (NHTSA 2022).

State

Assembly Bill 32 (Global Warming Solutions Act and Scoping Plan)

California's major initiative for reducing GHG emissions is outlined in Assembly Bill (AB) 32, the "California Global Warming Solutions Act of 2006," which was signed into law in 2006. AB 32 codifies the statewide goal of reducing GHG emissions to 1990 levels by 2020 and requires CARB to prepare a Scoping Plan that outlines the main State strategies for reducing GHG emissions to meet the 2020 target. In addition, AB 32 requires CARB to adopt regulations to require reporting and verification of statewide GHG emissions. Based on this guidance, CARB approved a 1990 Statewide GHG level and 2020 limit of 427 million MT of CO₂e (later updated to 431 MT of CO₂e based on updated GWP values). The Scoping Plan was approved by CARB on December 11, 2008, and included GHG emission reduction strategies related to energy efficiency, water use, and recycling and solid waste, among other measures. Many of the strategies included in the Scoping Plan (e.g., Low Carbon Fuel Standard, Advanced Clean Car standards, and Cap-and-Trade) have been adopted since approval of the Scoping Plan.

In May 2014, CARB approved the first update to the AB 32 Scoping Plan. The 2013 Scoping Plan Update defined CARB's climate change priorities for the next five years and set the groundwork to reach post-2020 statewide goals. The 2013 Scoping Plan Update highlighted California's progress toward meeting the 2020 GHG emission reduction goals defined in the original Scoping Plan. It also evaluated how to align the State's longer-term GHG reduction strategies with other State policy priorities, including those for water, waste, natural resources, clean energy, transportation, and land use. The State of California achieved its 2020 GHG emission reduction target in 2016, and emissions have subsequently fallen further in 2019 to 418 MMT of CO₂e (CARB 2021).

Senate Bill 32 (Global Warming Solutions Act and Scoping Plan Extension)

Senate Bill (SB) 32, signed into law on September 8, 2016, tightens the requirements of AB 32 by requiring the State to further reduce GHG emissions to 40 percent below 1990 levels by 2030 (the other provisions of AB 32 remain unchanged). On December 14, 2017, CARB adopted the 2017 Scoping Plan, which provides a framework for achieving the 2030 target. The 2017 Scoping Plan relied on the continuation and expansion of existing policies and regulations, such as the Cap-and-Trade Program, as well as the implementation of recently adopted policies, such as SB 350, SB 100, and SB 1383. The 2017 Scoping Plan also put an increased emphasis on innovation, adoption of existing technology, and strategic investment to support its strategies.

Assembly Bill 1279 (The California Climate Crisis Act)

AB 1279, “The California Climate Crisis Act,” was passed on September 16, 2022, and declares the policy of the State is to achieve net zero GHG emissions as soon as possible, but no later than 2045, and to achieve and maintain net negative GHG emissions thereafter. In addition, the bill states the State’s policy is to reduce GHG emissions by 85 percent below 1990 levels no later than 2045, which means that California would emit no more than 64.65 MMT of CO₂e per year by 2045 and would continue to reduce emissions thereafter. In response to AB 1279, CARB adopted the 2022 Scoping Plan, which lays out a path to achieve the AB 1279 targets. The actions and outcomes in the 2022 Scoping Plan would achieve significant reductions in fossil fuel combustion by deploying clean technologies and fuels, further reductions in short-lived climate pollutants, support for sustainable development, increased action on natural and working lands to reduce emissions and sequester carbon, and the capture and storage of carbon (CARB 2022a).

Senate Bill 100 (100 Percent Clean Energy Act)

Adopted on September 10, 2018, SB 100 supports the reduction of GHG emissions from the electricity sector by accelerating the State’s Renewables Portfolio Standard Program, which was last updated by SB 350 in 2015. SB 100 requires electricity providers to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020, 60 percent by 2030, and 100 percent by 2045.

Senate Bill 375 (Sustainable Communities and Climate Protection Act)

SB 375, signed in August 2008, enhances the State’s ability to reach AB 32 goals by directing CARB to develop regional GHG emission reduction targets to be achieved from passenger vehicles by 2020 and 2035. In addition, SB 375 directs each of the State’s 18 major Metropolitan Planning Organizations to prepare a “sustainable communities strategy” (SCS) that contains a growth strategy to meet these emission targets for inclusion in the Regional Transportation Plan (RTP). On March 22, 2018, CARB adopted updated regional targets for reducing GHG emissions from 2005 levels by 2020 and 2035. Southern California Association of Governments (SCAG) was assigned targets of an 8 percent reduction in GHGs from transportation sources by 2020 and a 19 percent reduction in GHGs from transportation sources by 2035 (CARB 2022b). In the SCAG region, SB 375 also provides the option for the coordinated development of subregional plans by the subregional councils of governments and the county transportation commissions to meet SB 375 requirements.

Executive Order B-55-18

On September 10, 2018, Governor Brown issued Executive Order B-55-18, which established a new statewide goal of achieving carbon neutrality by 2045 and maintaining net negative GHG emissions thereafter. This goal is in addition to the existing statewide GHG reduction targets established by SB 32, SB 100, SB 375, and SB 1383. The University of California (UC), as a State entity, is committed to its fair share of reduction measures in support of achieving carbon neutrality by 2045.

CARB Innovative Clean Transit Regulations

In December 2018, CARB adopted the Innovative Clean Transit regulations, requiring all transit agencies to develop a plan to achieve zero emission bus fleets on or before 2040. Starting between 2023 and 2029, transit agencies must begin purchasing only zero-emission bus replacements and must have completed the fleet replacement program prior to 2040.

California Code of Regulations Title 24 (California Building Code)

Updated every three years through a rigorous stakeholder process, Title 24 of the California Code of Regulations requires California homes and businesses to meet strong energy efficiency and sustainability measures, thereby lowering their GHG emissions. Title 24 contains numerous subparts, including Part 1 (Administrative Code), Part 2 (Building Code), Part 3 (Electrical Code), Part 4 (Mechanical Code), Part 5 (Plumbing Code), Part 6 (Energy Code), Part 8 (Historical Building Code), Part 9 (Fire Code), Part 10 (Existing Building Code), Part 11 (Green Building Standards Code), and Part 12 (Referenced Standards Code). The California Building Code is applicable to all development in California (Health and Safety Code Sections 17950 and 18938[b]).

The regulations receive input from members of industry, as well as the public, with the goal of “[r]educing of wasteful, uneconomic, inefficient, or unnecessary consumption of energy” (Public Resources Code Section 25402). These regulations are scrutinized and analyzed for technological and economic feasibility (Public Resources Code Section 25402[d]) and cost effectiveness (Public Resources Code Sections 25402[b][2] and [b][3]).

PART 6 – BUILDING ENERGY EFFICIENCY STANDARDS

California Code of Regulations Title 24 Part 6 is the Building Energy Efficiency Standards. This code, originally enacted in 1978, establishes energy efficiency standards for residential and non-residential buildings in order to reduce California’s energy demand. The Building Energy Efficiency Standards is updated periodically to incorporate and consider new energy-efficiency technologies and methodologies as they become available. New construction and major renovations must demonstrate their compliance with the current Building Energy Efficiency Standards through submission and approval of a Title 24 Compliance Report to the local building permit review authority and the California Energy Commission.

In 2021, the California Energy Commission updated Title 24 standards with more stringent requirements that became effective January 1, 2023. The building efficiency standards are enforced through the local plan check and building permit process. Local government agencies may adopt and enforce additional energy standards for new buildings as reasonably necessary due to local climatologic, geologic, or topographic conditions, provided these standards exceed those provided in Title 24.

The 2022 update to the Building Energy Efficiency Standards under Title 24 applies to buildings for which an application for a building permit is submitted on or after January 1, 2023. The updated standards mainly established electric-ready requirements when natural gas is installed, expanded solar photovoltaic and battery storage standards, and strengthened ventilation standards to improve indoor air quality (CEC 2021).

PART 11 – CALIFORNIA GREEN BUILDING STANDARDS

The California Green Building Standards Code, commonly referred to as “CALGreen” originally went into effect on August 1, 2009 and outlines architectural design and engineering principles that are in synergy with environmental resources and public welfare. CALGreen sets minimum standards for buildings, and since 2016, applies to new building construction and some alterations/additions within certain parameters. CALGreen establishes planning and design standards for sustainable site development, including water conservation measures and requirements that new buildings reduce water consumption by 20 percent below a specified baseline. CALGreen requires installations of 1.28 gallons-per-flush toilets and 0.5-gallon-per flush urinals for all non-residential projects as part of the prescriptive method of reducing indoor water use by the required 20 percent.

CALGreen lays out the minimum requirements for newly constructed residential and non-residential buildings to reduce GHG emissions through improved efficiency and process improvements. It also includes voluntary tiers to encourage building practices that improve public health, safety, and general welfare by promoting a more sustainable design. In addition, CALGreen includes several requirements related to solid waste diversion. Importantly, new non-residential construction is required to achieve at least 65 percent construction and demolition waste diversion and provide recycling areas for paper, cardboard, glass, plastics, metal, and organic waste. The 2022 CALGreen update primarily includes new requirements for the inclusion of electric vehicle charging stations and carbon dioxide monitoring and controls in classrooms. These requirements went into effect January 1, 2023.

Assembly Bill 341/Assembly Bill 1826 (Mandatory Recycling/Composting)

The California Integrated Waste Management Act of 1989, as modified by AB 341, requires each jurisdiction’s source reduction and recycling element to include an implementation schedule that shows diversion away from landfills of 75 percent of all solid waste by 2020 and annually thereafter. AB 1826 requires recycling of organic waste (i.e., composting). All businesses and public entities that generate four or more cubic yards of solid waste per week and multi-family residential dwellings that have five or more units are required to recycle and compost.

California Model Water Efficient Landscape Ordinance

The revised Model Water Efficient Landscape Ordinance became effective on December 15, 2015. New development that includes landscaped areas of 500 square feet or more are subject to the following revised ordinance requirements:

- More efficient irrigation systems
- Incentives for graywater usage
- Improvements in on-site stormwater capture
- Limiting the portion of landscape that can be planted with high water use plants
- Reporting requirements for local agencies.

University of California

UC Policy on Sustainable Practices

The UC's official sustainability commitment began in 2003 with a Regental action that led to the adoption of a Presidential Policy on Green Building Design and Clean Energy Standards in 2004. Since adopting that policy, UC expanded its sustainability policies to address climate protection, transportation, building operations, waste, procurement, food, water, and health care facilities. The policy was subsequently renamed the *UC Policy on Sustainable Practices*, which is updated periodically. In the 2007 revision of the *UC Policy on Sustainable Practices*, the UC Office of the President committed UC to implementing actions to achieve a reduction in GHG emissions from UC operations and activities to 2000 levels by 2014 and 1990 levels by 2020. UC's official commitment to sustainability across the above-listed sectors is integrated into the *UC Policy on Sustainable Practices*, which was last updated in July 2023. Per agreement of UCR and RUSD, the proposed project would be subject to compliance with the Sustainable Practices Policy in effect at the time (September 2018), including the following GHG emissions reductions policies (UCOP 2018):

- **Policy A.1:** All new building projects, other than acute care facilities, shall be designed, constructed, and commissioned to outperform the CBC energy-efficiency standards by at least 20 percent or meet the whole-building energy performance targets listed in Table 1 of Section V.A.3. The University will strive to design, construct, and commission buildings that outperform CBC energy efficiency standards by 30 percent or more, or meet the stretch whole-building energy performance targets listed in Table 1 of Section V.A.3, whenever possible within the constraints of program needs and standard budget parameters.
- **Policy A.3:** No new building or major renovation that is approved after June 30, 2019 shall use onsite fossil fuel combustion (e.g., natural gas) for space and water heating (except those projects connected to an existing campus central thermal infrastructure). Projects unable to meet this requirement shall document the rationale for this decision as described in Section V.A.4.
- **Policy A.4:** All new buildings will achieve a USGBC LEED "Silver" certification at a minimum. All new buildings will strive to achieve certification at a USGBC LEED "Gold" rating or higher, whenever possible within the constraints of program needs and standard budget parameters.
- **Policy B.2:** Campuses and health care locations will install additional on-site renewable electricity supplies and energy storage systems whenever cost-effective and/or supportive of the location's Climate Action Plan or other goals.

University of California, Riverside

2021 Long Range Development Plan

The 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP also includes objectives and policies relevant to GHG emissions that are applicable to the proposed project, which are summarized in Table 4.8-1.

Table 4.8-1 UCR 2021 LRDP Objectives and Policies Related to GHG Emissions

Objective	Policy
Mobility	
Invest in infrastructure to increase bicycle use and support other active transportation modes to integrate desired routes with the campus' and City's circulation framework.	Support and facilitate City-led initiatives to extend bikeways to campus from every direction, including routes proposed along Canyon Crest Drive, Martin Luther King Boulevard, and the Gage Canal.
	Provide adequate support amenities to facilitate and encourage the use of bicycles and other alternative transportation modes.
Emphasize safe and pleasing passage for pedestrians and bicycle riders through the careful, continued development and integration of the campus' multi-modal circulation framework and its extensions into the immediate community.	Implement University policies to improve pedestrian safety and encourage social interaction in zones of high pedestrian activity.
Campus Utility Infrastructure – Energy	
Support alternative measures (e.g., alternative fuels, energy sources, practices, carbon offsets, etc.) and mixed energy source portfolios in support of green sustainability practices.	Incorporate solar panels on the roofs of new construction to the maximum feasible extent.
	Incorporate solar panels as integral elements of new construction design and applicable green building certifications to the maximum feasible extent.
Campus Utility Infrastructure (INF) – Potable Water, Wastewater and Irrigation (WWI)	
Commit to a multi-prong approach to conserving potable water use.	Reduce potable water use in new facilities by exceeding applicable codes by a minimum of 20 percent.
Explore options to shift away from potable water use where feasible.	Design new building irrigation and efficient toilet flushing systems for use with future non-potable water sources.
Campus Sustainability	
Continue to build on this commitment to environmental stewardship to account for the impacts of development and expansion of campus infrastructure.	On-Campus Renewable Electricity – Campuses and health locations will install additional on-site renewable electricity supplies and energy storage systems whenever cost effective and/or supportive of the location's Climate Action Plan or other goals.

Source: UCR 2021b

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

SCAG 2020-2045 RTP/SCS

On September 3, 2020, SCAG's Regional Council formally adopted the 2020-2045 RTP/SCS (titled Connect SoCal). The 2020-2045 RTP/SCS builds upon the progress made through implementation of the 2016-2040 RTP/SCS and includes ten goals focused on promoting economic prosperity, improving mobility, protecting the environment, and supporting healthy/complete communities.

The SCS implementation strategies include focusing growth near destinations and mobility options, promoting diverse housing choices, leveraging technology innovations, and supporting implementation of sustainability policies. The SCS establishes a land use vision of center focused placemaking, concentrating growth in and near Priority Growth Areas, transferring of development rights, urban greening, creating greenbelts and community separators, and implementing regional advance mitigation (SCAG 2020).

City of Riverside Restorative Growthprint - Climate Action Plan

The Riverside Restorative Growthprint – Climate Action Plan (RRG-CAP) provides a roadmap for the City to achieve deep GHG emissions reductions through the year 2035. The RRG-CAP prioritizes the implementation of policies that enable the City to fulfill the requirements of State initiatives, AB 32 and SB 375. Measures in the RRG-CAP focus primarily on actions to be taken by the City at the community-level to reduce GHG emissions through actions such as amending zoning regulations for bicycle and vehicle parking standards and mixed-use development, subsidizing transit passes, and constructing new facilities to encourage alternative transportation (City of Riverside 2016). In addition, the measures focus on residential, mixed-use, and commercial development rather than institutional facilities, such as schools. As such, none of the measures in the RRG-CAP would be applicable to the proposed project.

City of Riverside General Plan

AIR QUALITY ELEMENT

The City's General Plan Air Quality Element includes objectives and policies to reduce GHG emissions (City of Riverside 2007). However, these objectives and policies focus on City-led initiatives, such as establishing a 1990 GHG emission baselines, implementing climate action plan to address municipal and communitywide emissions, and supporting GHG reduction programs developed by the South Coast Air Quality Management District (SCAQMD). As such, none of the GHG emission reduction objectives or policies in the Air Quality Element would be applicable to the proposed project.

4.8.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria related to GHG Emissions to assess the proposed project.

Would the proposed project:

- a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
- b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Individual projects do not generate enough GHG emissions to substantially influence climate change. However, physical changes caused by a project can contribute incrementally to cumulative effects that may be significant, even if individual changes resulting from a project are limited. The issue of climate change typically involves an analysis of whether a project's contribution towards an impact would be cumulatively considerable. "Cumulatively considerable" means the incremental

effects of an individual project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects (CEQA Guidelines Section 15064[h][1]).

To determine a significance threshold, the project is relying on guidance from SCAQMD, the air district in which the proposed project is located, which uses a tiered approach to determine the significance of project emissions:

- **Tier 1.** If the project is exempt from further environmental analysis under existing statutory or categorical exemptions, there is a presumption of less than significant impacts with respect to climate change. If not, then the Tier 2 threshold should be considered.
- **Tier 2.** Consists of determining whether the project is consistent with a GHG reduction plan that may be part of a local general plan, for example. The concept embodied in this tier is equivalent to the existing concept of consistency in CEQA Guidelines Section 15064(h)(3), 15125(d) or 15152(a). Under this tier, if the proposed project is consistent with the qualifying local GHG reduction plan, it is not significant for GHG emissions. If there is not an adopted plan, then a Tier 3 approach would be appropriate.
- **Tier 3.** Establishes a screening significance threshold level to determine significance. The Working Group has provided a recommendation of 3,000 MT of CO₂e per year for non-industrial land use development projects.
- **Tier 4.** Establishes a service population threshold to determine significance. The Working Group has provided a recommendation of 4.8 MT of CO₂e per year for land use projects.

Tier 1 would not apply to the project because it is not exempt from environmental analysis. For Tier 2, there is no applicable GHG reduction plan at the time of this analysis. Therefore, SCAQMD's 3,000 MT of CO₂e per year threshold for non-industrial land use development projects is an appropriate project-specific threshold, in accordance with Tier 3. The SCAQMD's 3,000 MT of CO₂e per year threshold is frequently used by jurisdictions across Southern California to determine GHG emissions impacts from non-industrial land use development projects. This approach is also consistent with recent CEQA documents prepared by UCR and RUSD, such as the Final Initial Study/Mitigated Negative Declaration for the Student Health & Counseling Center, and the Arlington High School Modernization and New Construction project (UCR 2021c; RUSD 2020).

Methodology

GHG emissions for construction and operation of the proposed project were calculated for CO₂, N₂O, and CH₄, which are reported collectively as CO₂e. GHG emissions were modeled for construction, area, energy, mobile, solid waste, and water sources. The input data for the proposed project are discussed below.

Construction Emissions

Assumptions included in the modeling of construction-related GHG emissions are provided in Section 4.3, *Air Quality*, as well as in Appendix C. Construction emissions occur for a limited period of a project's lifetime; therefore, as a standard practice, GHG emissions from construction are amortized over a presumed project lifetime and added to annual operational emissions. A project lifetime of 30 years is recommended by SCAQMD guidance (SCAQMD 2008) and the Association of Environmental Professionals in the *Final White Paper Beyond 2020 and Newhall* for amortizing construction-related GHG emissions (Association of Environmental Professionals 2016).

Operational Emissions

Assumptions included in the modeling of operational GHG emissions are provided in Section 4.3, *Air Quality*, as well as in Appendix C. In addition to these assumptions, the default CalEEMod rates for energy usage and solid waste disposal for the “high school” land use were utilized along with the default carbon intensity factors for electricity provided by Riverside Public Utilities. Although the proposed project would utilize electricity for space and water heating rather than natural gas, this analysis conservatively did not adjust the default natural gas usage estimate in CalEEMod, which includes space/water heating as well as cooking and other uses, due to a lack of available data on the estimated natural gas reduction. To provide a conservative estimate of project emissions, GHG emissions associated with existing on-site development (i.e., the open recreational field) were not modeled or accounted for in the GHG emissions estimates for the proposed project.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

Impact GHG-1 THE PROPOSED PROJECT WOULD NOT GENERATE GHG EMISSIONS, EITHER DIRECTLY OR INDIRECTLY, THAT WOULD HAVE A SIGNIFICANT IMPACT ON THE ENVIRONMENT. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Construction Emissions

During construction, the proposed project would generate GHG emissions primarily from the use of internal combustion engines to power on-site equipment as well as off-site transportation of workers and materials. As shown in Table 4.8-2, construction activities for the proposed project would generate an estimated 1,073 MT of CO₂e. When amortized over a 30-year period, construction of the project would generate approximately 30 MT of CO₂e per year.

Table 4.8-2 Estimated Construction GHG Emissions

Construction Year	Emissions (MT of CO ₂ e)
2026	471
2027	459
2028	143
Total	1,073
Amortized over 30 years	30

MT = metric tons; CO₂e = carbon dioxide equivalents
 Notes: Some numbers may not add up precisely due to rounding considerations.
 See Appendix C for modeling results.

Operational and Total Emissions

During operation, the proposed project would generate GHG emissions from area sources (e.g., landscaping equipment), electricity and natural gas use, mobile sources (vehicle trips by students, parents, faculty, staff, and visitors), water and wastewater conveyance, and solid waste disposal. Table 4.8-3 combines the construction and operational GHG emissions associated with development

of the proposed project. As shown, annual emissions from the proposed project would be approximately 1,846 MT of CO₂e, which would not exceed 3,000 MT of CO₂e per year threshold. In addition, because this analysis conservatively does not account for GHG emissions generated by existing on-site development, the net change in GHG emissions associated with the proposed project as compared to existing conditions would be less than that shown in Table 4.8-3 and even further below SCAQMD thresholds. Therefore, the proposed project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, and impacts would be **less than significant**.

Table 4.8-3 Estimated Annual Combined GHG Emissions

Emission Source	Annual Emissions (MT of CO₂e per year)
Construction	30
Operational	
Area	< 1
Energy	309
Mobile	1,459
Solid Waste	33
Water	15
Refrigerants	< 1
Net Total	1,846
SCAQMD Threshold	3,000
Exceeds Threshold?	No

MT = metric tons; CO₂e = carbon dioxide equivalents

Notes: See Appendix C for modeling results. Some numbers may not add up precisely due to rounding considerations.

Secondary Impacts of Displaced Recreational Activities

As discussed in Section 4.16, *Recreation*, the proposed project would require removal of the existing open recreation field on site, which would result in the re-location of existing on-site UCR and City recreational activities to other nearby UCR and City facilities. Under existing baseline conditions, this re-location of City recreational activities would occur regardless of the proposed project on September 17, 2027, which is the date on which the City’s non-exclusive license for use of the open recreation field on site will expire. Therefore, assuming project construction begins as early as January 1, 2026, these effects on recreational facility usage would only be attributable to the proposed project for a period of approximately 20.5 months.

Upon the start of project construction, existing users of the open recreational field on site may have to travel to reach other nearby UCR and City facilities to engage in recreational activities previously conducted on the project site. Several other UCR and City recreational facilities are available within two miles of the project site, as outlined in Section 4.16, *Recreation*. The distance traveled by any given user would depend on their origin and destination locations, which could vary widely, especially based on what recreational facilities the user desires (e.g., soccer fields, softball fields, open fields). Based on whether overall vehicle miles traveled associated with existing recreational use of the project site increases or decreases, GHG emissions would increase or decrease correspondingly.

For the purposes of CEQA, estimating the net change in vehicle miles traveled and the resulting GHG emissions associated with this change would be speculative because of the multiple unknown variables and data involved, such as the origin and destination locations of each existing user of the open recreational field. As stated in Sections 15144, 15145, and 15146(b) of the CEQA Guidelines, the lead agency is not required to, nor should it, engage in speculation or conjecture. As stated in CEQA Guidelines Section 15145, if, after thorough investigation, a lead agency finds that particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

Impact GHG-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CONFLICT WITH AN APPLICABLE PLAN, POLICY OR REGULATION ADOPTED FOR THE PURPOSE OF REDUCING THE EMISSIONS OF GHGs. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Several plans and policies have been adopted to reduce GHG emissions in the Southern California region, including the State’s 2022 Scoping Plan, SCAG’s 2020-2045 RTP/SCS, the UC Policy on Sustainable Practices, policies contained in the UCR 2021 LRDP, the City’s RRG-CAP, and the City’s General Plan Air Quality Element. The proposed project’s consistency with these plans is discussed in the following subsections. As discussed therein, the proposed project would not conflict with plans and policies aimed at reducing GHG emissions, and impacts would be **less than significant**.

Consistency with State Plans

The CARB 2017 Scoping Plan outlines a pathway to achieving the GHG emissions reduction targets set under SB 32 that are considered interim targets toward meeting the longer-term 2045 carbon neutrality goal established by EO B-55-18. Implementation of the proposed project would impede “substantial progress” toward meeting the SB 32 and EO B-55-18 targets if total project-related GHG emissions exceed the SCAQMD-recommended threshold. As discussed under Impact GHG-1, the proposed project’s GHG emissions would not exceed thresholds recommended by SCAQMD. As a result, implementation of the proposed project would not conflict with the reduction targets of the 2022 Scoping Plan and SB 32, and, therefore, EO B-55-18, and would not contribute significantly to climate change.

Consistency with Regional Plans

SCAG 2020-2045 RTP/SCS

The SCAG 2020-2045 RTP/SCS includes goals focused on promoting economic prosperity, improving mobility, protecting the environment, and supporting healthy/complete communities. The SCS implementation strategies include focusing growth near destinations and mobility options,

promoting diverse housing choices, leveraging technology innovations, and supporting implementation of sustainability policies.

As discussed in the Transportation Impact Analysis conducted by Fehr & Peers (Appendix H), RUSD decided in October 2021 that there would be no allocation of attendance capacity to students of the existing RUSD STEM Academy who reside outside of RUSD boundaries beginning with the 2022-2023 5th grade cohort and going forward for the following school years. As a result, when the proposed project opens in 2028, there would only be two remaining classes with students outside the RUSD boundary and the proposed project would have no students from outside the RUSD boundary in 2030 and beyond. As a result, the proposed project would be considered local-serving to the City. The addition of a local-serving high school to the region would focus growth near destinations for the nearby population. Additionally, project-related impacts to regional VMT would be minimized by the use of bussing as well as support for other alternative modes of transportation such as bicycle use. As a result, the proposed project would result in VMT that does not exceed the threshold of 15 percent below the Western Riverside Council of Governments VMT per service population, and the proposed project would not increase total VMT for the Western Riverside Council of Governments region above the VMT level anticipated in the 2020-2045 RTP/SCS (Appendix H). Therefore, the proposed project would be consistent with the SCAG 2020-2045 RTP/SCS.

Consistency with UC Policy on Sustainable Practices

The proposed project would be operated by RUSD, and UCR thus would not have operational control over the proposed project's GHG emissions. As a result, the GHG emissions generated by the proposed project would not be included as part of UCR's reporting for GHG emissions inventories and therefore would not influence the UC's ability to attain its GHG emission reduction targets. Furthermore, the proposed project would be consistent with the following policies in the 2018 UC Policy on Sustainable Practices, to which UCR and RUSD have agreed the project would be subject (UCOP 2018):

- **Policy A.3:** The proposed project would not include on-site fossil fuel combustion (e.g., natural gas) for space and water heating. Natural gas would be used only for cooking and laboratory purposes.
- **Policy A.4:** The proposed project would be designed to achieve a U.S. Green Building Council LEED "Silver" certification.
- **Policy B.2:** The proposed project would include a rooftop solar system, which would provide on-site renewable electricity supplies.

Therefore, the proposed project would be consistent with the UC Policy on Sustainable Practices.

Consistency with 2021 LRDP

The UCR 2021 LRDP contains objectives and policies pertaining to GHG emissions, as listed in Table 4.8-1 in Section 4.8.3, *Regulatory Framework*. The proposed project would be consistent with mobility-related objectives contained in the 2021 LRDP because the proposed project would be local-serving and would utilize bussing for a substantial portion of student transportation, which would reduce future vehicular traffic, parking demand, and GHG emissions. Additionally, the proposed project would be consistent with energy-related objectives contained in the 2021 LRDP because the proposed project would not consume natural gas for space and water heating and would include on-site solar panels to supply a portion of the project's electricity usage. In addition, the proposed project would be served by RPU, which would be required to procure 100 percent of

its electricity from renewable sources by 2045 pursuant to SB 100 requirements. The proposed project would also include sustainable design features such as efficient lighting and reduced potable water use for irrigation and landscaping. Therefore, the proposed project would be consistent with the GHG emissions-related policies of the 2021 LRDP.

Consistency with Local Plans

As noted in Section 4.8.3, *Regulatory Framework*, the measures in the City's RRG-CAP and the GHG emission reduction policies in the City's General Plan Air Quality Element are not applicable to the proposed project. Therefore, the proposed project would not conflict with the City's RRG-CAP or the GHG emissions-related policies of the City's General Plan.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.8.5 Cumulative Impacts

GHG emissions and global climate change represent cumulative impacts. GHG emissions cumulatively contribute to the significant adverse environmental impacts of global climate change. No single project could generate enough GHG emissions to noticeably change the global average temperature; instead, the GHG emissions from past, present, and future projects and activities have contributed, currently are contributing, and would contribute to global climate change and its associated environmental impacts.

The project-level analysis of GHG emissions is inherently cumulative and does not require the estimation of cumulative projects in the region of a project. Rather, the determination of cumulative GHG emissions impacts is based on the proposed plan's compliance with State targets established by SB 32 and EO B-55-18 to reduce GHG emissions to 40 percent below 1990 levels by 2030 and to net zero by 2045. In order to ensure that this goal would be achieved, air districts and lead agencies develop GHG thresholds to ensure compliance with the State targets. Therefore, projects with GHG emissions in conformance with these thresholds would not be considered to result in significant impacts for purposes of CEQA. In addition, although the emissions from such cumulative projects would add an incremental amount to the overall GHG emissions that cause global climate change impacts, emissions from projects consistent with these thresholds would not be a "cumulatively considerable" contribution under CEQA. Such projects would not be "cumulatively considerable," because they would be helping to solve the cumulative problem as a part of the SB 32 Scoping Plan process.

As determined under Impact GHG-1, the proposed project would not exceed the recommended SCAQMD threshold and would subsequently be consistent with State targets under SB 32. Furthermore, as discussed under Impact GHG-2, the proposed project would not conflict with applicable plans adopted to reduce the emissions of GHGs, specifically the City's RRG-CAP and General Plan Air Quality Element, SCAG 2020-2045 RTP/SCS, UCR 2021 LRDP, UC Policy on Sustainable Practices, CARB 2022 Scoping Plan, SB 32, and EO B-55-18. Therefore, the proposed project's contribution to cumulative GHG emissions impacts would **not be cumulatively considerable (less than significant)**.

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4.9 Hazards and Hazardous Materials

4.9.1 Introduction

This section describes existing conditions related to hazards and hazardous materials within and near the project site and evaluates whether implementation of the proposed project would result in any environmental impacts associated with hazards and hazardous materials. The analysis considers the potential health, safety, and environmental impacts related to the use, storage, and transport of hazardous materials and addresses the potential for implementation of the proposed project to result in hazards related to hazardous materials sites, airports, emergency response and evacuation plans, and wildland fires.

The term “hazardous material” is defined in different ways for different regulatory programs. This EIR uses the definition given in the California Health and Safety Code Section 25501(n), which defines a hazardous material as:

Any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment, or a material specified in an ordinance adopted pursuant to the governing body of a unified program agency.

Hazardous materials include, but are not limited to, hazardous substances, hazardous wastes, and any material which a handler or the administering agency has a reasonable basis for believing it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

Most hazardous materials are thought to be hazardous chemicals, but certain radioactive materials and biohazardous materials, as defined here, are also hazardous. A hazardous waste, for the purpose of this analysis, is any hazardous material that is abandoned, discarded, burned, or incinerated, mislabeled (or inadequately labeled), packaged in deteriorating or damaged containers, or recycled. In addition, hazardous wastes occasionally may be generated by actions that change the composition of previously non-hazardous materials. The criteria that characterize a material as hazardous also characterize a waste as hazardous: toxicity (causes human health effects), ignitability (has the ability to burn), corrosivity (causes severe burns or damage to materials), or reactivity (causes explosions or generates toxic gases).

Potential water quality effects related to surface water runoff from the project construction site are discussed in Section 4.10, *Hydrology and Water Quality*. Potential impacts related to toxic air contaminants are discussed in Section 4.3, *Air Quality*.

4.9.2 Existing Conditions

Regional Setting

Permitted uses of hazardous materials in the City of Riverside (City) include those facilities that use hazardous materials or handle hazardous wastes in accordance with current hazardous materials and hazardous waste regulations. The use and handling of hazardous materials from these sites is considered low risk, although there can be instances of unintentional chemical releases. In such cases, the site would be tracked in the environmental databases as an environmental case. Nevertheless, permitted sites without documented releases are potential sources of hazardous

materials in the soil and/or groundwater due to accidental spills, incidental leakage, or spillage that may have gone undetected. Some facilities are permitted for more than one hazardous material use and therefore could appear in more than one database.

The potential to encounter hazardous materials in soil and groundwater in the City is generally based on a search of federal, State, and local regulatory databases that identify permitted hazardous materials uses, environmental cases, and spill sites. The California Department of Toxic Substances Control (DTSC) EnviroStor database contains information on properties in California where hazardous substances have been released or where the potential for a release exists. The California State Water Resources Control Board (SWRCB) GeoTracker database contains information on properties in California for sites that require cleanup, which may impact or have potential impacts to water quality, with an emphasis on groundwater.

According to databases of hazardous material sites maintained by the DTSC (EnviroStor) and the SWRCB (GeoTracker), the following types of hazardous sites that are still active or need further evaluation are present in the City: voluntary cleanup, school cleanup, Federal Superfund, tiered permit, and military cleanup (DTSC 2022; SWRCB 2022).

Existing sites that may potentially contain hazardous land uses in the City include large and small-quantity generators of hazardous waste, such as dry cleaners, gas stations and other industrial uses. According to DTSC and SWRCB, there are several active and/or open sites containing or potentially containing hazardous materials contamination identified as active voluntary cleanup sites or needing further evaluation (DTSC 2022; SWRCB 2022). One of these sites is within 1,000 feet of the project site – the E-Z Serve #070135 Leaking Underground Storage Tank site, which is located at 811 Blaine Street, approximately 470 feet to the northeast of the project site and has a status of Completed – Case Closed (DTSC 2022; SWRCB 2022).

Campus and Project Site Setting

Hazardous Materials Usage and Waste Generation

The UCR campus hosts a dynamic variety of academic and research activities and is a permitted large-quantity generator of hazardous waste, which includes chemical waste, universal waste, and radioactive and biohazardous (infectious) waste. The policies and procedures for the safe management of hazardous materials and wastes at UCR are approved and administered at the Vice Chancellor level. The UCR Vice Chancellor Administration organization includes Environmental Health & Safety (EH&S), which is the principal administrator for hazardous materials/waste management on the UCR campus. EH&S provides requirements to campus users of hazardous materials concerning proper disposal of the resultant hazardous wastes at UCR. Included in these requirements are prohibitions against the discharge of any hazardous wastes into storm drains or the sanitary sewer system.

Hazardous material profiles for campus users have been identified in the UCR Hazardous Materials Business Emergency Plan (UCR 2020) prepared pursuant to the State Hazardous Materials Release Response Plans and Inventory Law of 1985 (Business Plan Law), which contains information about the location of, and emergency procedures for, campus buildings in which hazardous materials are handled. The business plan satisfies federal and State Community Right-to-Know laws. The Business Plan Law requires periodic reporting of inventory changes at UCR to the local administering agency, which is the Riverside Fire Department (RFD).

Two cell towers, currently leased to Sprint and T-Mobile, are located on the northwest corner of the location of the proposed STEM Education Center. As part of the proposed project, the T-Mobile Cell Tower would be decommissioned and removed, and the T-Mobile Cell Tower would be relocated to the northeastern portion of the adjacent UCR Baseball Complex. (The existing Sprint Cell Tower is planned to be decommissioned independently of the proposed project, and no replacement is proposed.)

Hazardous Materials and Waste Site Contamination

Because of materials commonly used in the construction and operation of buildings on the UCR campus, existing buildings or potential building sites may contain various hazardous substances as a result of former uses of the sites, leaks from unidentified underground storage tanks (UST), or unidentified buried debris that could contain hazardous substances or hazardous byproducts. Contaminated soils, building materials, or groundwater have the potential to pose hazards to construction workers, existing and future campus occupants, and nearby development if not managed and remediated safely.

As required by Public Resources Code Section 21092.6, lists compiled pursuant to Section 65962.5 of the Government Code (Cortese List), as well as additional databases maintained by federal and State agencies, were reviewed to determine whether the project site is included on or near any list pertaining to hazardous materials or hazardous wastes. These lists also identify known or suspected locations with soil or groundwater contamination. One of the most common sources of site contamination stems from petroleum hydrocarbons leaking from storage tanks that may have been in various areas of the UCR campus. The project site is within 1,000 feet of one listed contaminated site – the E-Z Serve #070135 Leaking Underground Storage Tank site, which is located at 811 Blaine Street approximately 470 feet to the northeast of the project site and has a status of Completed – Case Closed (DTSC 2022; SWRCB 2022). The project site is not within 1,000 feet of areas where petroleum hydrocarbon or hazardous material and hazardous waste storage currently occurs (DTSC 2022; SWRCB 2022).

A Preliminary Environmental Assessment conducted for the proposed project by PlaceWorks in May 2023, which is included in full as Appendix F, found that levels of arsenic and lead within the on-site soils were within typical DTSC screening levels, and all other metals within the on-site soils were within typical background levels. No polychlorinated biphenyls or asbestos were detected in the soil samples analyzed. The Preliminary Environmental Assessment determined that no further assessment would be required for the project site (Appendix F).

Groundwater Conditions

The project site overlies the Riverside-Arlington sub-basin of the larger Upper Santa Ana River Groundwater Basin. Although UCR has no knowledge of groundwater contamination on campus, the extent to which groundwater quality may have been affected by historic activities is unknown (UCR 2021a).

Airport Hazards

The project site is in Area E of the March Air Reserve Base/Inland Port Airport Land Use Compatibility Plan “airport influence area,” which is designated an area of concern for “hazards to flight.” Area E defines the outer limits of the airport influence area, where the risk level is defined as “low.” Hazards to flight include physical (e.g., tall objects), visual, and electronic forms of interference with the safety of aircraft operations. In Area E, there is no limit on residential or other

uses, restrictions on population density, or requirement for open space. However, although there is no explicit upper limit on usage intensity, land uses of the types listed—uses that attract very high concentrations of people in confined areas—are discouraged in locations below or near the principal arrival and departure flight tracks. The project site is not located near the principal arrival and departure flight tracks (Riverside County Airport Land Use Commission 2014).

Wildland Fires

As further described in Section 4.20, *Wildfire*, the project site is not located in a designated Very High Fire Hazard Severity Zone (VHFHSZ) or in a State Responsibility Area. With respect to the project site, the closest VHFHSZ is located approximately 0.4 mile to the northeast in the neighborhood surrounding Highland Park, which backs up into an open space area, and the nearest SRA is approximately 1.3 miles to the east (California Department of Forestry and Fire Protection [CAL FIRE] 2022). The project site is relatively flat in topography and are surrounded by urban development with no wildland vegetation in its vicinity.

4.9.3 Regulatory Framework

The management of hazardous materials and hazardous wastes is regulated by federal, State, and UCR programs, including programs administered by the U.S. Environmental Protection Agency (USEPA) and agencies within the California Environmental Protection Agency (CalEPA), such as the DTSC, as well as federal and State occupational safety agencies. For a detailed discussion on the regulatory framework related to wildland fires, refer to Section 4.20.3, *Regulatory Framework*, in Section 4.20, *Wildfire*.

Federal

United States Environmental Protection Agency

The USEPA is the main federal agency responsible for enforcing laws and regulations relating to hazardous materials and wastes, including evaluation and remediation of contamination and hazardous wastes. The USEPA works collaboratively with other agencies to enforce hazardous materials handling and storage regulations and site cleanup requirements. The Occupational Safety and Health Administration (OSHA) and the United States Department of Transportation are authorized to regulate safe transport of hazardous materials. USEPA Region 9 has jurisdiction over the southwestern United States (Arizona, California, Nevada, and Hawaii).

Resource Conservation and Recovery Act (RCRA)

Under the Resource Conservation and Recovery Act (RCRA), USEPA regulates the generation, treatment, and disposal of hazardous waste, and the investigation and remediation of hazardous waste sites. RCRA includes procedures and requirements for reporting releases of hazardous materials, for cleanup of such releases, and for handling hazardous wastes or soil or groundwater contaminated with hazardous wastes. Individual states may apply to USEPA to authorize them to implement their own hazardous waste programs in lieu of RCRA, if the state program is at least as stringent as federal RCRA requirements. California has been authorized by USEPA to implement its own hazardous waste program; the California program is handled by the DTSC and discussed further below.

Hazardous and Solid Waste Amendments Act of 1984

The Hazardous and Solid Waste Amendments Act amended the Solid Waste Disposal Act of 1965, as amended by the RCRA. The Hazardous and Solid Waste Amendments Act placed greater responsibility on the USEPA to implement and enforce hazardous waste rules set in place by the RCRA. The Hazardous and Solid Waste Amendments Act affirmed and extended the “cradle to grave” system of regulating hazardous wastes and specifically prohibited the use of certain techniques for the disposal of some hazardous wastes. The Hazardous and Solid Waste Amendments Act includes more than 70 provisions, including the establishment of permitting deadlines for hazardous waste facilities, the regulation of small-quantity generators of hazardous waste, and the formation of RCRA Corrective Action requirements, which assist hazardous waste facilities in investigating and cleaning up any release of hazardous waste.

Comprehensive Environmental Response, Compensation, and Liability Act

The Comprehensive Environmental Response, Compensation, and Liability Act, also known as Superfund, establishes a cleanup liability regime and process for certain properties contaminated by hazardous substances that pose a threat to human health and the environment. The Comprehensive Environmental Response, Compensation, and Liability Act created a tax on chemical and petroleum industries, which generated a trust fund for cleaning abandoned or uncontrolled hazardous waste sites with no identified responsible party. It also authorized short-term and long-term removal and response actions to address hazardous substance releases and/or permanently reduce releases or threats of releases.

Superfund Amendments and Reauthorization Act

In 1986, the Superfund Amendments and Reauthorization Act (SARA) amended the Comprehensive Environmental Response, Compensation, and Liability Act, reflecting the USEPA’s experience in administering the Superfund program over six years. The SARA provided new enforcement authorities and tools, increased the amount of funds available for hazardous waste site cleanups and increased the awareness of human health problems affiliated with hazardous waste sites. Another change generated by the SARA was the revision of the USEPA’s Hazard Ranking System to accurately assess the risk posed to human health and the environment by uncontrolled hazardous waste sites.

Emergency Planning and Community Right-to-Know Act (SARA Act Title III)

The Emergency Planning and Community Right-to-Know Act was created under SARA Title III to help communities protect public health and safety from chemical hazards. The national legislation requires each state to appoint a State Emergency Response Commission, which then divides each state into Emergency Planning Districts and nominates a Local Emergency Planning Committee for each district. The Emergency Planning and Community Right-to-Know Act provides compliance and reporting standards as well as waste, chemical, and cleanup enforcement, allowing each district to plan and prepare thoroughly should a hazardous waste accident or release arise.

Hazardous Materials Transportation Act

The Hazardous Materials Transportation Act was developed in 1975 to create a uniform ruling on the transportation of hazardous materials in the United States. The law was intended to coordinate existing regulations, which previously varied widely across state lines and led to mismanagement and illegal dumping of hazardous waste. The Hazardous Materials Transportation Act is

administered by the United States Department of Transportation via its issuance of inspections, training, and transportation requirements and information. The federal government delegates enforcement authority to the states.

Occupational Safety and Health Act

OSHA (29 Code of Federal Regulations [CFR] 1910) is intended to ensure that employers provide their workers with a work environment free from recognized hazards to safety and health, such as exposure to toxic chemicals, excessive noise levels, mechanical dangers, or unsanitary conditions. Operation of this program is delegated to the State and operated by the Division of Occupational Safety and Health, known as Cal/OSHA. Standards are created by the National Institute for Occupational Safety as the research institution for the federal Occupational Safety and Health Administration (Fed/OSHA). These standards are adopted at the State and local level and are enforced on the UCR campus by Cal/OSHA and other agencies.

Public Health Security and Bioterrorism Preparedness and Response Act

Title 42, Part 73 of the CFR, published in December 2002, implements the provisions of the Public Health Security and Bioterrorism Preparedness and Response Act of 2002, which sets forth the requirements for possession, use, and transfer of select agents and toxins. The biological agents and toxins listed in this part have the potential to pose a severe threat to public health and safety, to animal health, or to animal products. Overlap select agents and toxins are subject to regulation by both the Center for Disease Control and Center for Animal and Plant Health Inspection Service.

Spill Prevention, Control, and Countermeasure

The Spill Prevention, Control, and Countermeasure (SPCC) Rule (40 CFR 112) was enacted to provide engineering, operational, maintenance, and management strategy that minimize the potential for a spill or release of oil products, such as fuel and petroleum/lubricating oil, from certain storage and operational equipment and activities and to prevent an oil spill from entering a waterway. The SPCC requirements in Title 40, Part 112 of the CFR apply to owners or operators of non-transportation-related onshore and offshore facilities engaged in drilling, producing, gathering, storing, processing, refining, transferring, distributing, or consuming oil or oil products that store more than 1,320 gallons total in all aboveground containers of 55 gallons or greater storage capacity. Facilities subject to the rule must prepare and implement an SPCC Plan. UCR has an SPCC Plan for oil storage operations on campus.

Federal Insecticide, Fungicide, and Rodenticide Act

The Federal Insecticide, Fungicide, and Rodenticide Act (40 CFR 152 through 186) provided the USEPA with the authority of pesticide labeling and establishing standards for certification of restricted pesticide application. The USEPA also has the authority to delegate pesticide enforcement authority to states by entering into cooperative agreements with State pesticide programs. Since 1975, California has had primary authority over pesticide enforcement in the State. The USEPA uses its authority under the Federal Insecticide, Fungicide, and Rodenticide Act to regulate the distribution, sale, use, and testing of plants and microbes producing pesticidal substances.

Section 402 of the Clean Water Act – National Pollutant Discharge Elimination System

Section 402 of the Clean Water Act regulates point-source discharges to surface waters (other than dredge or fill material) through the National Pollutant Discharge Elimination System (NPDES), administered by the USEPA. The primary regulatory control relevant to the protection of water quality is the NPDES permit administered by the SWRCB. The SWRCB establishes requirements prescribing the quality of point sources of discharge and water quality objectives. The NPDES permits are issued to point source dischargers of pollutants to surface waters pursuant to Division 7 of the California Water Code, Chapter 5.5, which implements the federal Clean Water Act. The Regional Water Quality Control Boards (RWQCBs) establish and regulate discharge limits under the NPDES permits.

State

At the State level, agencies such as Cal/OSHA, the Office of Emergency Services, and the California Department of Public Health have rules governing the use of hazardous materials that parallel federal regulations and are sometimes more stringent. DTSC is the primary State agency governing the storage, transportation, and disposal of hazardous wastes. DTSC is authorized by the USEPA to enforce and implement federal hazardous materials laws and regulations.

Department of Toxic Substances Control

DTSC regulates the generation, transportation, treatment, storage, and disposal of hazardous waste, and the investigation and remediation of hazardous waste sites. DTSC implements the Hazardous Waste Control Law, which provides regulations for existing hazardous waste facilities, such as “any structure, other appurtenances, and improvements on the land, used for treatment, transfer, storage, resource recovery, disposal, or recycling of hazardous wastes.” The Hazardous Waste Control Law requires permits for, and inspections of, facilities involved in generation and/or treatment, storage, and disposal of hazardous wastes. Lead responsibility for remediation depends on the proposed use of a parcel, the character of waste contaminants, and the need for site monitoring.

California Emergency Plan

California has developed an Emergency Plan to coordinate emergency services provided by federal, State, local government, and private agencies. The Emergency Plan is administered by the Office of Emergency Services and includes response to hazardous materials incidents. The Office of Emergency Services coordinates the response of other agencies, including the CalEPA, the California Highway Patrol, the California Department of Fish and Wildlife, the RWQCB, and Air Pollution Control Districts. UCR’s Emergency Operations Plan is consistent with the policies and procedures set forth in California’s Emergency Plan.

California Environmental Protection Agency

CalEPA has broad jurisdiction over hazardous materials management in California. Within CalEPA, the DTSC has primary regulatory responsibility for hazardous waste management and cleanup. Enforcement of regulations has been delegated to local jurisdictions that enter into agreements with DTSC for the generation, transport, and disposal of hazardous materials under the authority of the Hazardous Waste Control Law. CalEPA and the DTSC regulate the generation, transportation, treatment, storage, and disposal of hazardous waste under the RCRA and the California Hazardous

Waste Control Law. Both laws impose “cradle to grave” regulatory systems for handling hazardous waste in a manner that protects human health and the environment.

Hazardous Waste and Substance Site List – Site Cleanup

Government Code Section 65962.5 requires DTSC to develop, update, and submit to CalEPA the Cortese List. The Cortese List is updated at least annually by CalEPA to provide the public with the hazardous sites’ location and status. The DTSC is responsible for a portion of the reporting of the Cortese List, which is made available via the EnviroStor database. The Cortese List is a planning document used by State and local agencies and developers to comply with CEQA requirements in providing information about the location of hazardous materials release sites.

Environmental Health Standards for the Management of Hazardous Waste Law

Title 22, Division 4.5, Chapter 11, Sections 66261.20 through 66261.24 of the California Code of Regulations (CCR) contain technical descriptions of characteristics that would classify wasted material, including soil, as hazardous waste. Specifically, waste is considered hazardous if it is toxic, ignitable, corrosive, or reactive pursuant to the criteria established in Article 3. When excavated, soils with concentrations of contaminants higher than certain acceptable levels must be handled and disposed of as hazardous waste. When demolished, structural features containing lead-based paint (LBP) also can be considered hazardous waste, depending on concentrations, and must be handled and disposed of as hazardous waste.

General Industry Safety Orders – Control of Hazardous Substances Law

At the state level, the federal Occupational Safety and Health Act of 1970 (Title 8 CCR) is implemented by Cal/OSHA, which is responsible for ensuring worker safety in the handling and use of chemicals in the workplace. Cal/OSHA has primary responsibility to develop and enforce workplace safety regulations concerning the use of hazardous materials in the workplace, including requirements for employee safety training, availability of safety equipment, accident and illness prevention programs, hazardous substance exposure warnings, and emergency action and fire prevention plan preparation.

State Water Resources Control Board

The SWRCB is responsible for implementing regulations pertaining to management of soil and groundwater investigation and cleanup. The SWRCB and the nine RWQCBs, collectively known as the California Water Boards, are dedicated to a single vision: abundant clean water for human uses and environmental protection to sustain California's future. Under the federal Clean Water Act and the State's pioneering Porter-Cologne Water Quality Control Act, the SWRCB and RWQCBs have regulatory responsibility for protecting the water quality in California.

Municipal Regional Stormwater NPDES Permit

On January 29, 2010, the RWQCB adopted Order R8-2010-0033, as amended by Order R8-2013-0024 (NPDES Permit and Waste Discharge Requirements for the Riverside County Flood Control and Water Conservation District, the County of Riverside [County], and the incorporated cities of the County in the Santa Ana Region), otherwise known as the municipal separate storm sewer system (MS4) permit. The City is a co-permittee under the Riverside County MS4 permit. One component of the MS4 permit requires the development of site-specific water quality management plans for new development and significant redevelopment projects. Water quality management plans include site

design, source control, and treatment elements to reduce stormwater pollution from urban runoff (Santa Ana Regional Water Quality Control Board 2010).

Statewide General Stormwater NPDES Permit

On February 5, 2013, the SWRCB adopted WQ Order 2013-0001-DWQ NPDES No. CAS000004 General Permit for Waste Discharge Requirements for Storm Water Discharges from Small MS4s designating the UCR campus a Non-traditional Small MS4 permittee. The Small MS4 General Permit WQ Order 2013-0001-DWQ refers to MS4s that operate throughout a community as “Traditional MS4s” and MS4s that are similar to traditional MS4s but operate at a separate campus or facility as “Non-traditional MS4s.” This order regulates stormwater runoff from small municipalities and other facilities, including federal- and State-operated facilities that can include universities, prisons, hospitals, and military bases. Small MS4 General Permit elements include post-construction stormwater management (e.g., site design measures, low impact development design standards) to effectively reduce runoff and pollutants associated with runoff from new development and redevelopment projects.

California Toxics Rule and State Implementation Policy

The California Toxics Rule, presented in 2000 in response to requirements of the USEPA’s National Toxics Rule, establishes numeric water quality criteria for approximately 130 priority pollutant trace metals and organic compounds. The California Toxics Rule criteria are regulatory criteria adopted for inland surface waters, enclosed bays, and estuaries in California that are on the Clean Water Act Section 303(c) list for contaminants. The Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, also known as the State Implementation Policy, was adopted by the State Water Board in 2000. The goal of the State Implementation Policy is to establish a standardized approach for permitting discharges of toxic effluent to inland surface waters, enclosed bays, and estuaries throughout the State.

Article IX of the California Constitution

The Regents is a Constitutional Corporation, organized under Article IX, Section 9 of the California Constitution, with full authority over governance and management of University operations. Under this authority, UCR has legal authority to prevent illicit discharges into its system, including control of inflow and infiltration sources such as stormwater, chemical dumping, or debris.

California Accidental Release Prevention Program

The California Accidental Release Prevention Program (CCR Title 19, Division 2, Chapter 4.5) covers certain businesses that store or handle more than a certain volume of specific regulated substances at their facilities. The list of regulated substances is found in Article 8, Section 2770.5 of the California Accidental Release Prevention Program regulations. The businesses that use a regulated substance above the noted threshold quantity must implement an accidental release prevention program, and some may be required to complete a Risk Management Plan. A Risk Management Plan is a detailed engineering analysis of the potential accident factors present at a business and the mitigation measures that can be implemented to reduce this accident potential. The purpose of a Risk Management Plan is to decrease the risk of an off-site release of a regulated substance that might harm the surrounding environment and community.

California Hazardous Materials Release Response Plans and Inventory Law

The California Hazardous Materials Release Response Plans and Inventory Law of 1985 (Business Plan Act) requires preparation of Hazardous Materials Business Plans and disclosure of hazardous materials inventories, an emergency response plan, and provisions for employee training in safety and emergency response procedures (see Health and Safety Code, Division 20, Chapter 6.95, Article 1 and CCR Title 19 Division 2, Chapter 4, Article 4).

California Department of Transportation/California Highway Patrol

The California Department of Transportation (Caltrans) is the first responder for hazardous material spills and releases that occur on highway and freeway lanes and inter-city rail services. California adopted the United States Department of Transportation regulations for the movement of hazardous materials by motor vehicle; State regulations are contained in CCR Title 13, Division 2, Chapter 6. In addition, the State of California regulates the transportation of hazardous waste originating in the State and passing through the State (CCR Title 26). Both regulatory programs apply in California. The State agency with primary responsibility for enforcing State hazardous materials transportation regulations and responding to hazardous materials transportation emergencies is the California Highway Patrol.

California Division of Occupational Safety and Health

The Cal/OSHA and the Fed/OSHA are the agencies responsible for assuring worker safety in the handling and use of chemicals in the workplace. Cal/OSHA assumes primary responsibility for developing and enforcing standards for safe workplaces and work practices.

Underground Storage Tank Act

The underground storage tank monitoring and response program is required under Chapter 6.7 of the California Health and Safety Code and CCR Title 23. The program was developed to ensure that facilities meet regulatory requirements for monitoring, maintenance, and emergency response in operating underground storage tanks. The County of Riverside Department of Environmental Health is the local administering agency for this program.

Aboveground Petroleum Storage Act

The Aboveground Petroleum Storage Act (Health and Safety Code, Chapter 6.67, Sections 25270 through 25270.13) requires registration and spill prevention programs for aboveground storage tanks that store petroleum. In some cases, aboveground storage tanks for petroleum may be subject to groundwater monitoring programs that are implemented by the RWQCBs and the SWRCB.

Lead Regulations

Because of its toxic properties, lead is regulated as a hazardous material. Lead is also regulated as a toxic air contaminant. State-certified contractors must perform inspection, testing, and removal (abatement) of lead-containing building materials in compliance with applicable health and safety and hazardous materials regulations. Regulations to manage and control exposure to LBP are described in CFR Title 29, Section 1926.62 and CCR Title 8, Section 1532.1. These regulations cover the demolition, removal, cleanup, transportation, storage, and disposal of lead-containing material. The regulations outline the permissible exposure limit, protective measures, monitoring, and compliance to ensure the safety of construction workers exposed to lead-based materials.

Cal/OSHA's Lead in Construction Standard requires project proponents to develop and implement a lead compliance plan when LBP would be disturbed during construction. The plan must describe activities that could emit lead, methods for complying with the standard, safe work practices, and a plan to protect workers from exposure to lead during construction activities.

UCR also maintains a Lead Compliance Plan which establishes a plan to minimize occupational exposure to lead and management of construction activities involving lead. The Lead Compliance Plan provides control measures for implementing when construction work involves lead contamination or potential lead contamination.

Asbestos Regulations

The following asbestos-related regulations apply to asbestos activities at UCR:

- UCR Asbestos Management Plan (see discussion under UCR Regulations in subsequent subsection)
- Cal/OSHA (8 CCR Section 1529)
- Cal/OSHA (8 CCR Section 8358)
- Cal/OSHA (8 CCR Section 5208)
- Fed/OSHA Asbestos Construction Standard (29 CFR 1926.1101)
- Fed/OSHA Asbestos General Industry Standard (29 CFR 1910.1001)
- USEPA National Emission Standards of Hazardous Air Pollutants Asbestos Standard (UCR 2019a)
- South Coast Air Quality Management District Rule 1403 (Asbestos Emissions from Demolition/Renovation Activities) (South Coast Air Quality Management District 2007)

Pursuant to California Health and Safety Code Sections 25915 and 25916, UCR EH&S maintains a campus-wide inventory of locations of asbestos-containing building materials and provides annual campus-wide notification of locations containing asbestos. Appropriate signs are posted when asbestos-containing materials (ACMs) are disturbed during construction or renovation at campus locations, pursuant to State and South Coast Air Quality Management District regulations. These regulations require testing of any facility being demolished or renovated for the presence of all friable and Class I and II non-friable ACM. They also establish notification procedures, removal procedures, handling operations, and warning label requirements. Approved procedures for ACM removal to protect surrounding uses include High Efficiency Particulate Arresting filtration, the glovebag method, wetting, and some methods of dry removal.

California Fire Code

The 2022 California Fire Code (Title 24 CCR Part 9) contains regulations consistent with nationally recognized accepted practices for safeguarding, to a reasonable degree, life and property from the hazards of fire and explosion, hazardous conditions in the use or occupancy of buildings or premises, and dangerous conditions arising from the storage, handling, and use of hazardous materials and devices. It also contains provisions to assist emergency response personnel. The provisions of this code apply to the construction, alteration, movement enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal, and demolition of every building or structure or any appurtenances connected or attached to such building structures throughout the State.

More specifically, California Fire Code Title 24, Part 9, Chapter 7 addresses Fire-Resistance-Rated Construction; Chapter 8 addresses fire-related Interior Finishes; Chapter 9 addresses Fire Protection and Life Safety Systems; and Chapter 10 addresses fire-related Means of Egress, including Fire Apparatus Access Road width requirements. California Fire Code Section 4906 contains regulations for vegetation and fuel management to maintain clearances around structures. California Fire Code Chapter 33, *Fire Safety During Construction and Demolition*, includes requirements for a construction pre-fire plan, training, fire protection devices, regulations for refueling, fire clearances, precautions against fire (including prohibitions on smoking), on-site firewatch, and regulations for welding and electrical wiring. In addition to the requirements in the California Fire Code, California Building Code (Title 24 CCR Part 2), Chapter 7A addresses Materials and Construction Methods for Exterior Wildfire Exposure.

California Division of the State Architect

Pursuant to California Government Code Section 4453.5, the California Division of the State Architect (DSA) has jurisdiction over the construction of State and school district buildings used by the public. California public K-12 schools must submit plans to the DSA to ensure they comply with code requirements and obtain DSA approval prior to the start of construction. One of DSA's primary roles is the fire and life safety review of public school buildings to ensure the facilities comply with fire and life safety codes. Through Interpretation of Regulations documents, the DSA promotes uniform statewide criteria relating to the design, construction, and inspection of public schools.

University of California, Riverside

Main Campus Emergency Action Plan

As required by CCR Title 8, UCR prepared and implemented an Emergency Action Plan in July 2012. The latest revision to the plan occurred in 2016. The document is intended to guide the emergency response actions of all campus personnel during an emergency event as well as to provide standard actions in the case of a safety-threatening emergency. The plan includes procedures relevant to address hazards such as: evacuation procedures and emergency escape routes; procedures for employees who remain to operate critical plan operations before they evacuate; procedures to account for all employees after an emergency evacuation is completed; rescue and medical duties for those employees able to perform them; the preferred means of reporting fires and other emergencies; the names, job titles, and departments of persons who can be contacted for further information or explanation of duties under the plan; alerting, notification, and contacts related to emergencies; and emergency procedures (UCR 2023).

EH&S Program

The UCR EH&S program has the primary responsibility of providing technical assistance, consulting, and regulatory compliance support in a variety of areas. The goal of EH&S is to protect the health and safety of University faculty, staff, students, and visitors through safe handling, collection, and disposal of hazardous chemical, biological, radioactive, and universal waste. Detailed information regarding EH&S programs are provided in the campus's EH&S website, which provides each program's elements, contact personnel, applicable manuals and policy, and web links to other pertinent government agencies and information sources (UCR 2022).

Laboratory Safety Design Guide

UCR also follows a *Laboratory Safety Design Guide* for the construction of new lab space. This includes standards related to safety lab space, electrical safety and power systems, lab ventilation and fume hoods, emergency equipment, pressure vessel and compressed gas planning, hazardous materials storage and use areas, biosafety, and radiation (University of California Environment, Health & Safety 2007).

Spill Prevention, Control, & Countermeasures Plan

Pursuant to the regulatory requirements of Title 40 of the CFR Part 112, a 2015 SPCC Plan was prepared for UCR. The objectives of the plan are to define the spill prevention, control, and countermeasures implemented by UCR. The SPCC Plan also provides a series of three facility maps and associated tables that include hazardous material storage information for bulk storage tanks, portable storage tanks, and exempt underground storage tanks. The SPCC Plan addresses inspection and record keeping, facility drainage, bulk storage tanks, personnel training and spill prevention procedures, bulk liquid transfer operations, and security. The plan requires an annual review and update by a SPCC “Designated Person” to ensure that all the requirements in the plan are achieved. The designated person is the Director of the EH&S Office (UCR 2015).

Chemical Hygiene Plan

The Chemical Hygiene Plan establishes a formal written program for protecting laboratory personnel against adverse health and safety hazards associated with exposure to potentially hazardous chemicals and must be made available to all employees working with hazardous chemicals. The Chemical Hygiene Plan describes the proper use and handling practices and procedures to be followed by faculty, staff, students, visiting scholars, and all other personnel working with potentially hazardous chemicals in laboratory settings. The plan is based on best practices identified in, among other sources, “Prudent Practices for Handling Hazardous Chemicals in Laboratories,” published by the National Research Council, and the American Chemical Society’s “Safety in Academic Chemistry Laboratories” (UCR 2019b).

Asbestos Management Plan

UCR EH&S has the primary authority for ACM at all UCR facilities. An Asbestos Management Plan is to be implemented for the purpose of minimizing and/or eliminating the possibility of exposure to airborne asbestos fibers for UCR building tenants, the public using UCR buildings, and employees and maintenance workers. The UCR Asbestos Management Plan will remain in effect until all ACM have been completely removed from all UCR facilities.

UCR 2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan does not contain any policies or objectives pertaining to hazards or hazardous materials (UCR 2021b).

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is

appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code section 53094.

The City and County are required to comply with federal and State laws and regulations pertaining to hazardous materials management, including, but not limited to, Articles 79 and 80 of the Uniform Fire Code and applicable hazardous materials management requirements set forth in the Uniform Building Code (with California Amendments). Various departments and divisions in the City and County are responsible for monitoring and enforcement of such activities as the Business Plan, hazardous waste management, underground storage tank operation and removal, and fire prevention and emergency response.

The California Health and Safety Code grants discretionary authority to the local agency—typically the local Certified Uniform Program Agency—with oversight responsibilities to determine the need for preparation of a Risk Management Plan pursuant to Health and Safety Code Section 25534(a). For facilities not previously subject to Risk Management Plan requirements, but for which a Risk Management Plan must be prepared, the Risk Management Plan must be submitted in accordance with a schedule established by the administering agency after consultation with the stationary source.

Riverside County Airport Land Use Commission

The Riverside County Airport Land Use Compatibility Plan establishes various policies and compatibility maps for individual airports within its jurisdiction, including the March Air Reserve Base/Inland Port Airport. Riverside County Airport Land Use Commission review is required when a project is located within the boundaries of an Airport Influence Area and the project proposes a legislative action like a General Plan Amendment, Specific Plan Amendment, Zone Change, or Zoning Ordinance.

City of Riverside General Plan

PUBLIC SAFETY ELEMENT

The City's General Plan Public Safety Element contains objectives, policies, and tools that aim to reduce potential hazards and protect individuals from injuries caused by hazards and hazardous materials and associated with management and transport of hazardous materials. Through implementation of the General Plan policies, the City will continue to ensure that hazardous materials are handled properly in business and industry, work with responsible federal, State, and County agencies to identify and regulate the disposal of toxic materials, reduce the risks associated with air and ground transportation hazards, and minimize groundwater contamination (City of Riverside 2021a).

4.9.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Hazards and Hazardous Materials to assess the proposed project:

Would the proposed project:

- a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?
- b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment?
- c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?
- d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, create a significant hazard to the public or the environment?
- e. Result in a safety hazard or excessive noise for people residing or working in the project area (or a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport)?
- f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?
- g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

Methodology

The impact analysis examines the hazards and hazardous materials impacts that would result from the proposed project. Conditions that could pose a risk were identified through review of documents pertaining to hazards and hazardous materials, including: a Preliminary Environmental Assessment prepared in May 2023 (Appendix F), the SPCC, UCR webpages, the UCR Emergency Operations Plan, previous UCR EIRs, background reports prepared for nearby plans and projects, and published literature. The information obtained from these sources was reviewed and summarized to establish the existing conditions (described in Section 4.9.2, *Existing Conditions*) and identify potential impacts from hazards and hazardous materials associated with the proposed project. In determining the level of significance, the analysis assumes the proposed project would comply with relevant laws, regulations, and guidelines.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Impact HAZ-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CREATE A SIGNIFICANT HAZARD TO THE PUBLIC OR THE ENVIRONMENT THROUGH THE ROUTINE TRANSPORT, USE, OR DISPOSAL OF HAZARDOUS MATERIALS. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Construction

Potential hazardous materials, such as fuel, paint products, lubricants, solvents, and cleaning products, may be used and/or stored on site during the construction of the proposed project. The quantities of these materials would be limited, and they are not considered hazardous to the public at large. Furthermore, the transport, use, and storage of hazardous materials during project construction would be conducted pursuant to all applicable federal, State, and local regulations, including but not limited to Title 49 of the CFR, as implemented by Title 13 of the CCR, which describes strict regulations for the safe use and transport of hazardous materials.

In addition, as described in Section 4.10, *Hydrology and Water Quality*, because both the Santa Ana Regional Water Quality Control Board (SARWQCB) NPDES Phase I permit (NPDES Permit No. CAS 618033) and the Phase II Small MS4 Statewide General Stormwater Permit would be applicable to the project site, the proposed project would be required to comply with the more stringent permitting requirements, which are contained in the Phase I permit, as well as with the reporting provisions of the Phase II MS4 General Permit. Compliance with this permit would require the prevention of construction site discharges of pollutants through the installation, implementation, and maintenance of best management practices and ensure compliance with the statewide Construction General Permit (State Water Resources Control Board Order 2009- 0009-DWQ, as amended). As part of compliance with the Construction General Permit, a Stormwater Pollution Prevention Plan (SWPPP) would be prepared for the proposed project. Among other things, the SWPPP requires that hazardous materials be properly stored, contained, and disposed of to prevent polluted stormwater discharges from the site.

As a result, the proper use and disposal of these materials would not pose a significant risk to the public and the environment. Therefore, with implementation of the regulations described above, project construction would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Impacts would be **less than significant**.

Operation

Small quantities of hazardous materials may be used during operation of the proposed project for STEM-related educational and maintenance activities. The RUSD Risk Management Office is responsible for overseeing hazardous waste management at all schools in the district. Consistent with current operating procedures for RUSD schools, RUSD would contract an environmental management consultant to oversee the packaging, transportation, and disposal of any hazardous wastes generated during project operation. Maintenance and upkeep of the facility by RUSD's in-house Custodial Services, including cleaning of workspaces, parking areas, restroom facilities, and maintenance of landscaping would require the applicable use of various solvents, cleaners, paints,

lubricants, and/or pesticides/herbicides which would be stored in storage enclosures on-site and in accordance with applicable regulations. Decommissioning of the on-site cellular towers and relocation of the T-Mobile cellular tower to the UCR Baseball Complex would not involve the transport, use, or disposal of hazardous materials. The use of hazardous materials in the proposed STEM Education Center would be conducted pursuant to applicable federal, State, and local regulations, including Title 49 of CFR, as well as provisions discussed in detail in the UCR Hazardous Materials Business Plan. Furthermore, because the proposed project would be operated by the Riverside Unified School District (RUSD), faculty and staff of the project would be required to adhere to the RUSD Code of Safe Workplace Practices, which includes guidelines regarding maintenance and operations safety when handling hazardous materials (RUSD 2018).

Transportation of hazardous materials and wastes associated with the project along any city or State roadway or rail lines in or near the UCR campus would be subject to all relevant Caltrans, California Highway Patrol, and California Department of Health Services hazardous materials and wastes transportation regulations, as applicable. Regular inspections are conducted of licensed waste transporters by agencies to ensure compliance with requirements that range from the design of vehicles used to transport wastes to the procedures to be followed in case of spills or leaks during transit. Any hazardous waste generated by the proposed project would be transported and disposed of the material at a licensed hazardous waste disposal facility in accordance with all applicable regulations, such as the Hazardous Materials Transportation Act, California Hazardous Material Management Act, and California Code of Regulations, Title 22. Oversight of hazardous waste would be managed by RUSD's Risk Management Office.

With continued adherence to federal and State regulations, the UCR Hazardous Materials Business Plan, and the RUSD Code of Safe Workplace Practices, project operation would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Therefore, impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Impact HAZ-2 THE PROPOSED PROJECT WOULD NOT CREATE A SIGNIFICANT HAZARD TO THE PUBLIC THROUGH REASONABLY FORESEEABLE UPSET AND ACCIDENT CONDITIONS INVOLVING THE RELEASE OF HAZARDOUS MATERIALS INTO THE ENVIRONMENT. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Construction

No facilities or infrastructure containing lead-based paint or asbestos-containing materials is anticipated to be demolished as part of project construction. Based on a review of the EnviroStor, GeoTracker, and Solid Waste Information System databases, no hazardous waste disposal sites, solid waste disposal sites, or hazardous substance release sites were identified within the project

site (DTSC 2022; SWRCB 2022; UCR 2021a). In addition, the Preliminary Environmental Assessment conducted for the proposed project found that levels of arsenic and lead within the on-site soils were within typical DTSC screening levels and all other metals within the on-site soils were within typical background levels; and no polychlorinated biphenyls or asbestos were detected in the soil samples analyzed (Appendix F). Therefore, construction of the proposed project would not disturb hazardous material-impacted soil, soil vapor, or groundwater such that a release of hazardous materials into the environment through reasonably foreseeable upset and accident conditions may occur.

In addition, as described in Section 4.10, *Hydrology and Water Quality*, because both the SARWQCB NPDES Phase I permit (NPDES Permit No. CAS 618033) and the Phase II Small MS4 Statewide General Stormwater Permit would be applicable to the project site, the proposed project would be required to comply with the more stringent permitting requirements, which are contained in the Phase I permit, as well as with the reporting provisions of the Phase II MS4 General Permit. Compliance with this permit would require prevention of construction site discharges of pollutants through the installation, implementation, and maintenance of BMPs and would ensure compliance with Construction General Permit (State Water Resources Control Board Order 2009-0009-DWQ, as amended). As part of the compliance with the Construction General Permit, a SWPPP would be prepared for the proposed project. Among other things, the SWPPP requires that hazardous materials be properly stored, contained, and disposed of to prevent polluted stormwater discharged from construction sites, which would prevent substantial spills of hazardous materials during reasonably foreseeable upset and accident conditions and prevent or reduce the release hazardous materials into the environment.

Furthermore, the UCR HMBP and the Emergency Action Plan outline emergency and spill response procedures that include, but are not limited to, specific emergency response instructions, locations of personnel and equipment resources, specialty hazard instructions, and appropriate training. Therefore, project construction would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. Impacts would be **less than significant**.

Operation

As noted under Impact HAZ-1, small quantities of hazardous materials may be used during operation of the proposed project for STEM-related educational and maintenance activities, which creates the potential risk for upset and accident conditions to arise that involve the potential release of hazardous materials into the environment. However, as discussed under Impact HAZ-1, consistent with current operating procedures for RUSD schools, RUSD would contract an environmental management consultant to oversee the packaging, transportation, and disposal of any hazardous wastes generated during project operation. In addition, the UCR Hazardous Materials Business Plan would continue to serve as the guiding document for prevention of such incidents, and the RUSD Code of Safe Workplace Practices would also provide guidelines to reduce the potential for accident conditions. With adherence to these regulations, the proposed project would not create a significant hazard to the public through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold c: Would the proposed project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?

Impact HAZ-3 THE PROPOSED PROJECT WOULD HANDLE HAZARDOUS OR ACUTELY HAZARDOUS MATERIALS, SUBSTANCES, OR WASTE WITHIN 0.25 MILE OF AN EXISTING OR PROPOSED SCHOOL, BUT WOULD NOT ADVERSELY AFFECT SCHOOLS AS A RESULT. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site is located on the UCR campus, and one other school - the REACH Leadership STEAM Academy - is located approximately 0.2 mile southwest of the project site. In addition, the project itself involves construction and operation of a high school.

Construction

Construction of the proposed project would comply with existing federal, State, and UC requirements for the transport, use, or disposal of hazardous materials. As noted under Impact HAZ-2, no facilities or infrastructure containing lead-based paint or asbestos-containing materials is anticipated to be demolished as part of project construction. In addition, no hazardous waste disposal sites, solid waste disposal sites, or hazardous substance release sites were identified within the project site that could result in a release of hazardous emissions or materials (DTSC 2022; SWRCB 2022; UCR 2021a). In addition, the Preliminary Environmental Assessment conducted for the proposed project found that levels of arsenic and lead within the on-site soils were within typical DTSC screening levels, all other metals within the on-site soils were within typical background levels, and no polychlorinated biphenyls or asbestos were detected in the soil samples analyzed (Appendix F). Furthermore, the project would be required to comply with existing federal and State regulations during construction activities. Therefore, project construction would not emit hazardous emissions or handle hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school. Impacts would be **less than significant**.

Operation

The proposed project would not emit hazardous emissions during operation, but small quantities of hazardous materials may be used during operation for STEM-related educational and maintenance activities. Consistent with current operating procedures for RUSD schools, RUSD would contract an environmental management consultant to oversee the packaging, transportation, and disposal of any hazardous wastes generated during project operation. Maintenance and upkeep of the facility, including cleaning of workspaces, parking areas, restroom facilities, and maintenance of landscaping would require the applicable use of various solvents, cleaners, paints, lubricants, and/or pesticides/herbicides which would be stored in storage enclosures and in accordance with applicable regulations. Decommissioning of the on-site cellular towers and relocation of the T-Mobile cellular tower to the UCR Baseball Complex would not involve the transport, use, or disposal of hazardous materials. The transport, use, and disposal of these materials would be subject to federal, State, UCR, and RUSD regulations and standards, including the UCR Hazardous Materials Business Plan and the RUSD Code of Safe Workplace Practices, which would govern the safe and appropriate handling of these materials and wastes. With adherence to these regulations and

standards, project operation would not adversely affect schools within 0.25 mile of the project site due to the handling of hazardous materials, substances, or waste. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold d: Would the proposed project be located on a site that is included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Impact HAZ-4 THE PROPOSED PROJECT WOULD NOT BE LOCATED ON A SITE THAT IS INCLUDED ON A LIST OF HAZARDOUS MATERIAL SITES COMPILED PURSUANT TO GOVERNMENT CODE SECTION 65962.5. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Based on a review of the EnviroStor, GeoTracker, and Solid Waste Information System databases, no hazardous waste disposal sites, solid waste disposal sites, or hazardous substance release sites were identified within the project site (DTSC 2022; SWRCB 2022; UCR 2021a). The only listed site within 1,000 feet of the project site is the E-Z Serve #070135 Leaking Underground Storage Tank site, which is located at 811 Blaine Street approximately 470 feet to the northeast of the project site and has a status of Completed – Case Closed (DTSC 2022; SWRCB 2022). This site experienced soil contamination from gasoline and has been closed since 1992 (SWRCB 1992). Because the media of contamination was soil and given the distance of this case from the project site, it is unlikely that contamination related to this case is present on site. Therefore, construction and operation of the proposed project would not create a significant hazard to the public or environment due to a hazardous materials site listed pursuant to Government Code Section 65962.5. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold e: For a proposed project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the proposed project result in a safety hazard or excessive noise for people residing or working in the project area?

Impact HAZ-5 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN A SAFETY HAZARD OR EXCESSIVE NOISE FOR PEOPLE RESIDING OR WORKING IN THE PROJECT AREA DUE TO PROXIMITY TO AN AIRPORT. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site would not be situated within two miles of a public airport or public use airport. Flabob Airport is approximately 4.4 miles to the west of the project site and March Air Reserve Base is approximately 7.3 miles to the southeast of the project site. However, the project site is located in Area E of the March Air Reserve Base/Inland Port Airport Land Use Compatibility Plan influence area, which is designated an area of concern for “hazards to flight.” In Area E, land uses that attract very high concentrations of people in confined areas are discouraged in locations below or near the principal arrival and departure flight tracks. The project site is not located near the principal arrival and departure flight tracks (Riverside County Airport Land Use Commission 2014). Therefore, the proposed project would not result in safety hazards or excessive noise for students, faculty, staff, visitors, or others present at the project site. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold f: Would the proposed project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Impact HAZ-6 THE PROPOSED PROJECT WOULD POTENTIALLY IMPAIR IMPLEMENTATION OF OR PHYSICALLY INTERFERE WITH AN ADOPTED EMERGENCY RESPONSE PLAN OR EMERGENCY EVACUATION PLAN. THEREFORE, IMPLEMENTATION OF MITIGATION MEASURES MM WF-1 WOULD BE REQUIRED TO REDUCE IMPACTS TO LESS THAN SIGNIFICANT.

UCR’s Emergency Action Plan guides evacuation procedures in case of fire and other emergencies. In addition, UCR’s Transportation and Parking Services personnel support evacuations and coordinate with other University departments and with the City, as necessary. The proposed project would be required to comply with UCR’s Emergency Action Plan during construction and operation.

Construction

Construction of the proposed project would include decommissioning existing cell towers, removal of existing landscape and hardscape followed by the development of a new structure, infrastructure, and site improvements on the project site. In addition, the T-Mobile Cell Tower would be relocated to the northern portion of the adjacent UCR Baseball Complex west of the location of the proposed STEM Education Center. Temporary lane closures may be required during the installation of driveway and infrastructure improvements (including for staging construction equipment during installation of the proposed utilities improvements), but no road closures are anticipated. The Campus Fire Marshal would review plans during the plan review process to ensure

adequate ingress/egress on the project site during construction activities is made available to emergency vehicles. Nevertheless, project construction activities would still have the potential to impair implementation of emergency response and emergency evacuation plans at the project site and in the surrounding area. Therefore, impacts to adopted emergency response and emergency evacuation plans would be potentially significant without mitigation. However, implementation of **Mitigation Measure MM WF-1** would reduce potential impacts to **less than significant with mitigation incorporated** by requiring preparation and implementation of a construction management plan.

In addition, as outlined in the Draft EIR for the 2021 LRDP, UCR would also require Continuing Best Practices (CBPs) as conditions of project approval. CBP WF-1 would ensure, to the extent feasible, that at least one unobstructed lane in both directions on campus roadways are maintained specifically in the event of a fire emergency. CBP WF-2 would have the Campus Fire Marshal disclose roadway closures to the City of Riverside Fire Department and identifies alternative travel routes, if necessary (UCR 2021a). Implementation of these CBPs would further reduce the project's impact related to adopted emergency response plans and emergency evacuation plans, which would be less than significant with **Mitigation Measure MM WF-1** incorporated.

Operation

During operation, the proposed STEM Education Center would be accessible from existing roadways, which include Canyon Crest Drive and Blaine Street. These roadways would provide multiple ingress and egress points for emergency vehicles to access the project site. The relocated T-Mobile Cell Tower would be accessible from Blaine Street. Roadways in the vicinity of the project site are not designated evacuation routes in the City's General Plan Public Safety Element (City of Riverside 2021b). The nearest major arterial roadway that is used as an evacuation route from the project site vicinity is Iowa Avenue to the I-215/SR 60 freeway, which is located approximately 0.4 mile to the west of the project site. From the project site, Iowa Avenue is accessible directly via Blaine Street. Operation of the proposed project would not substantially alter or otherwise interfere with public rights-of-way. As shown in Figure 2-4 in Section 2, *Project Description*, the proposed site plan includes space for vehicles and buses to queue on site for student drop-off and pick-up, which would minimize the potential for vehicles and buses to queue outside the location of the proposed STEM Education Center on Canyon Crest Drive.

In addition, the proposed project would comply with applicable California Fire Code (Title 24, CCR, Part 9) requirements that include stringent building standards including fire suppression systems, materials, and design and fire-related Means of Egress, including Fire Apparatus Access Road width requirements. As continuing best practice and in compliance with the California Fire Code, the *Campus Construction and Design Standards* include fire protection features to which the proposed project would be required to adhere. The DSA and the Campus Fire Marshal would review project design and circulation plans during the plan review process, and the Campus Fire Marshal would inspect the proposed project prior to occupancy of the building to ensure all applicable Fire Codes are met, fire protection features are incorporated, and adequate ingress/egress on the project site is made available at all times to emergency vehicles. The Campus Fire Marshal and Federal Communications Commission/Federal Aviation Administration would also review the relocated T-Mobile Cell Tower to ensure the installation, design, and access meet all relevant codes and requirements. Therefore, project operation would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan, and impacts would be **less than significant**.

Mitigation Measures

Mitigation Measure MM WF-1 outlined in Section 4.20, *Wildfire*, would be required to address potential impacts to adopted emergency response plans and emergency evacuation plans. In addition, Continuing Best Practices (CBP) WF-1 and WF-2 outlined in Section 4.20, *Wildfire*, would be included as conditions of project approval.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold g: Would the proposed project expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

Impact HAZ-7 THE PROPOSED PROJECT WOULD NOT EXPOSE PEOPLE OR STRUCTURES, EITHER DIRECTLY OR INDIRECTLY, TO A SIGNIFICANT RISK OF LOSS, INJURY, OR DEATH INVOLVING WILDLAND FIRES. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As further detailed in Section 4.20, *Wildfire*, the project site is not located in a designated Very High Fire Hazard Severity Zone (VHFHSZ) or in a State Responsibility Area. With respect to the project site, the closest VHFHSZ is located approximately 0.4 mile to the northeast in the neighborhood surrounding Highland Park, which backs up into an open space area, and the nearest SRA is approximately 1.3 miles to the east (CAL FIRE 2022). No wildland vegetation is in the immediate vicinity of the project area.

Construction

Project construction activities may involve the use of hazardous materials such as petroleum products. UCR EH&S and the Campus Fire Marshal are charged with implementing measures, directly and through campus departments, designed to ensure compliance with applicable federal and State laws and regulations related to the proper use, storage, and transport of hazardous materials during construction activities. Construction equipment would be subject to standard operating procedures that would limit sources of ignition that could generate a wildland fire. All construction activities on campus, including the project site, require fire safety protocols, including, but not limited to, on-site fire extinguishing equipment. Compliance with applicable federal and State laws and regulations related to the proper use, storage, and transport of hazardous materials would reduce the risk of wildfire ignition from the use of hazardous materials during construction activities. As such, project construction would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires, and impacts would be **less than significant**.

Operation

Operation of the proposed STEM Education Center would introduce new occupants to the project site, including students, faculty, staff, and visitors. Operation of the relocated T-Mobile Cell Tower would be similar to that of the existing T-Mobile Cell Tower, which includes infrequent inspection and maintenance. Factors for assessing existing wildland fire risk potential include drought, slope steepness, wind speeds, flammability of vegetation, and burn history and severity (i.e., the length of time from the last fire and location of last proximate fire). Since fires burn faster uphill, slope steepness is a crucial factor in fire spread. Vegetation provides fuel for fires, and low relative

humidity and strong winds are critical weather conditions that could lead to rapid or dramatic increases in wildfire activity (CAL FIRE 2020).

The UCR campus is subject to Santa Ana winds, which are strong dry offshore winds that affect southern California in autumn and winter. They can range from hot to cold, depending on the prevailing temperatures in the source regions, the Great Basin, and upper Mojave Desert (Tufts University 2018). The winds are known for the hot dry weather (often the hottest of the year) that they bring in the fall and are infamous for fanning regional wildfires. Santa Ana winds are a type of downslope windstorm that occur over southern California from the coastal mountains westward and from Ventura County southward to the Mexican border (Rolinski et al. 2016).

The proposed project would be located on a previously-disturbed site with relatively flat topography where fire risk is generally minimal. There are no steep, vegetated slopes and hillsides, and no wildland vegetation in proximity to the project site. Therefore, the likelihood of the ignition of a wildland fire at or around the area of the project site is low. The proposed project would be subject to the *Campus Construction and Design Standards* and building codes (including the UCR Fire Prevention and Life Safety Policy), which require all construction, alterations, renovations, and interior space dividers be subject to California Fire Code review and inspection by the DSA as well as UCR's Building and Safety Division, Fire Prevention, EH&S, Office of Emergency Management, and/or other applicable UCR departments and staff. This includes approval of plans and specifications to verify compliance with applicable codes, including the following:

- Title 24, CCR, Building Regulations
- Uniform Fire Code
- National Fire Codes of the National Fire Protection Association
- Title 19, CCR, Public Safety
- Title 8, CCR, Occupational Safety
- California Health and Safety Code
- Federal Communications Commission/Federal Aviation Administration requirements for the relocated T-Mobile Cell Tower

The proposed project is required to be constructed to modern fire safety standards, which requires plan reviews, during which the DSA, Campus Building Official, and Campus Fire Marshal would review the project plans to ensure that the design of the proposed structure complies with the required codes. The Campus Fire Marshal and Federal Communications Commission/Federal Aviation Administration would also review the relocated T-Mobile Cell Tower to ensure the installation, design, and access meet all relevant codes and requirements. The proposed project would be required to comply with the California Fire Code regarding emergency/fire access and use of building materials that would limit the spread of wildfire to the greatest extent possible. The California Fire Code includes safety measures that minimize the threat of fire, including ignition-resistant construction with exterior walls of noncombustible or ignition resistant material from the surface of the ground to the roof system and sealing any gaps around doors, windows, eaves and vents to prevent intrusion by flame or embers. Development would also be required to meet California Building Code requirements, including CCR Title 24, Part 2, which includes specific requirements related to exterior wildfire exposure. CCR Title 14 sets forth the minimum development standards for emergency access, setback, signage, and water supply, which help prevent loss of structures or life by reducing wildland fire hazards risk.

Small quantities of hazardous materials may be used during operation of the proposed project for STEM-related educational and maintenance activities. As previously mentioned, UCR EH&S is charged with implementing measures, directly and through campus departments, designed to ensure compliance with applicable federal and State laws and regulations related to the proper use, storage, and transport of hazardous materials. Specifically, all individuals who handle hazardous materials are appropriately trained and are provided with Material Safety Data Sheets, which provide chemical safety information about precautions for protecting against known hazards associated with the material and identify protocols for proper storage and disposal of chemicals. In addition, the Campus Fire Marshal is responsible for ensuring compliance with the proper storage, handling, and use of explosive, flammable, combustible, toxic, corrosive, and other hazardous materials. Compliance with applicable federal and State laws and regulations related to the proper use, storage, and transport of hazardous materials would reduce the risk of wildland fire ignition from the potential use of these small quantities of hazardous materials.

For all the reasons discussed above, project operation would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.9.5 Cumulative Impacts

A project's environmental impacts are "cumulatively considerable" if the "incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects" (CEQA Guidelines Section 15065[a][3]). Although some hazardous materials releases can cover a large area and interact with other releases (e.g., atmospheric contamination, contamination of groundwater aquifers), incidents of hazardous materials contamination due to leaking underground storage tank sites or releases at individual businesses are more typically confined to a limited area. These relatively limited areas of contamination generally do not interact in a cumulative manner with other sites of hazardous materials contamination. However, if construction would create a new site of contamination or contribute substantially to a hazardous condition, it could be considered to contribute to a cumulative impact. This cumulative analysis assesses development on and proximate to the project site and includes buildout of projects outlined in Table 4-1 in Section 4, *Environmental Impact Analysis*, as well as projects on the UCR campus.

It is anticipated that future growth in the cumulative project area would result in an incremental increase in the quantity of hazardous materials used, treated, transported, and disposed area wide. Cumulative projects would be required to comply with safety procedures mandated by applicable federal, State, and local laws and regulations related the transport, use, and disposal of hazardous materials. Nonradioactive hazardous waste materials would be disposed of into permitted hazardous waste facilities, and radioactive waste would be decayed on-site or disposed of in facilities specifically approved for radioactive waste pursuant to federal and State regulations. As described under Impact HAZ-1, operation of the proposed project would involve the transport, use, and disposal of minor quantities of hazardous materials. However, the use, storage, transport, and

disposal of hazardous materials would be guided by existing and future federal, State, UCR, and RUSD regulations and standards designed to maximize the safety of faculty, staff, students, the public, and the environment. Consequently, the contribution of the proposed project to cumulative impacts regarding the transport, use, and disposal of hazardous materials **would not be cumulatively considerable (less than significant)**.

It is anticipated that future growth in the cumulative project area would result in an incremental increase in reasonably foreseeable upset and accident conditions involving the release of hazardous materials, particularly during redevelopment of older buildings that may contain ACMs and/or LBP, redevelopment of sites with unknown underground storage tanks, and at construction sites where there may be occurrences of stormwater discharge. Cumulative projects and associated activities in the cumulative area would be required to comply with safety procedures mandated by applicable federal, State, and local laws and regulations related to the release of hazardous materials. LBPs and other lead-containing materials associated with cumulative projects would be handled in compliance with Cal/OSHA regulations regarding LBPs and lead-containing materials. CCR Title 8, Section 1532.1, requires testing, monitoring, containment, and disposal of LBPs and lead-containing materials in a manner that exposure levels do not exceed Cal/OSHA standards. Additionally, all new development and redevelopment would be subject to the water quality requirements of the Santa Ana Regional Water Quality Control Board, the Small MS4 General Permit, and other applicable federal, State, and local regulations. Adherence to such regulations would reduce the potential for impacts of the proposed project to combine with similar impacts of other projects in such a manner that results in cumulative impacts. Furthermore, as discussed in Impact HAZ-2, impacts related to potential hazards to the public or the environment through reasonably foreseeable upset and accident conditions during project construction and operation would be less than significant. Consequently, the contribution of the proposed project to cumulative impacts **would not be cumulatively considerable (less than significant)**.

Future development in the cumulative area may involve hazardous emissions or the handling of acutely hazardous materials, substances, or wastes within 0.25 mile of existing or proposed schools. For the proposed project, UCR and RUSD would continue to comply with applicable hazardous materials and disclosure requirements for the handling, use, storage, and disposal of hazardous materials. Future development on- and off-campus would also be required to comply with applicable laws and regulations pertaining to hazardous wastes, and risks associated with hazardous emissions or materials to existing or proposed schools located within 0.25 mile of future development would be eliminated or reduced through proper handling, disposal practices, and/or cleanup procedures. As discussed under Impact HAZ-3, impacts related to hazardous emissions or the handling of hazardous materials within 0.25 mile of a school would be less than significant. Therefore, the proposed project's contribution to cumulative impacts associated with hazardous emissions or handling of hazardous materials within 0.25 mile of an existing or proposed school **would not be cumulatively considerable (less than significant)**.

Future development in the cumulative area could potentially expose residents and construction workers to contaminated soil or groundwater, including on or near sites included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. As discussed under Impact HAZ-4, the project site is not located on or adjacent to a previously contaminated site; therefore, the proposed project's contribution to cumulative impacts associated with exposure to contaminated soil or groundwater, including development on or near hazardous materials sites, **would not be cumulatively considerable (less than significant)**.

Increased development within the vicinity of the Flabob Airport and March Air Reserve Base could expose residents, employees, and visitors to potential aircraft-related hazards. Approved, planned, and pending projects in the cumulative area may be within Airport Land Use Commission Safety Areas or Compatibility Zones, thereby potentially exposing persons to risk of airport safety hazards. The severity of potential hazards for individual projects would depend upon the location, type, and size of development and the specific hazards associated with individual sites and would require evaluation on a project-by-project basis. As such, cumulative impacts would be based on each project's contribution to cumulative aircraft-related hazards. As discussed in Impact HAZ-5, the proposed project would not result in airport-related safety hazards and excessive noise impacts to construction workers or students, faculty, staff, visitors, and other people on-site during project operation. Therefore, the proposed project's contribution to cumulative impacts associated with airport-related safety hazards and excessive noise impacts **would not be cumulatively considerable (less than significant)**.

Cumulative development in the City and UCR would comply with local emergency response plans, which coordinate efforts among agencies and local entities in the event of emergencies. This includes coordinating evacuation procedures for residents and businesses in the region. However, there is a chance that construction or operation of new cumulative development would interfere with emergency response and evacuation plans and thus considered potentially significant. Roadways in the vicinity of the project site are not designated evacuation routes. Therefore, the project's contribution **would not be cumulatively considerable (less than significant)**. Furthermore, implementation of CBPs WF-1 and WF-2, as discussed under Impact HAZ-6, would ensure, to the extent feasible, that at least one unobstructed lane in both directions on campus roadways are maintained specifically in the event of a wildfire emergency and that the Campus Fire Marshal discloses roadway closures to the City Fire Department and identifies alternative travel routes, if necessary.

The project site is surrounded by suburban development. Cumulative wildland fire-related impacts could be significant if cumulative development would occur in rural or high fire hazard areas that could exacerbate risks due to location on steep slopes, in high-wind areas, or areas of historical wildland fire burn areas. However, cumulative development in the City and throughout the County is anticipated to generally increase the density of development, which would help reduce wildland fire risk given that structures in areas with low- to intermediate-housing density are most likely to burn and fire frequency also tends to be highest at low to intermediate housing density (California Natural Resources Agency 2018). Cumulative development and infrastructure would be subject to statewide standards for fire safety in the California Fire Code. The proposed project would be located on a previously disturbed site with relatively flat topography located away from steep, vegetated slopes and hillsides with no wildland vegetation in the immediate proximity. Therefore, the likelihood for the ignition of a wildland fire on or around the project site is low as is the likelihood for exposure of people or structures to significant risk of loss, injury, or death involving wildland fires. Therefore, the proposed project's contribution to wildland fire impacts **would not be cumulatively considerable (less than significant)**.

4.9.6 References

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4.10 Hydrology and Water Quality

4.10.1 Introduction

This section describes the existing hydrological setting, including surface water, groundwater, drainage patterns, and flood hazards, at and around the project site and surrounding areas and evaluates whether implementation of the proposed project would result in any environmental impacts on hydrology and water quality. Potential effects related to overall water supply or the potential need for construction of new or expanded stormwater infrastructure are discussed in Section 4.19, *Utilities and Service Systems*.

4.10.2 Existing Conditions

Regional Setting

Surface Water

A hydrologic unit is a drainage area in a multi-level drainage system with boundaries that are defined by hydrographic and topographic criteria specifying an area of land upstream from a specific point on a river, stream, or other surface water. A hydrologic unit can accept surface water directly from upstream drainage areas and indirectly from associated surface areas such as remnant areas (those formed as residual areas after delineation of classic hydrologic units), non-contributing areas (drainage areas that do not flow toward the outlet of a hydrologic unit), and artificial diversions to form a drainage area with single or multiple outlet points. A watershed is an area of land where all of the water that originates or falls in it or drains off of it collects into the same surface body of water (i.e., river, lake, ocean). Hydrologic units are only synonymous with watersheds when the boundaries include all the source areas contributing surface water to a single defined outlet point (United States Department of Agriculture [USDA] 2009 and 2022).

The UCR campus is located in the Middle Santa Ana River Watershed of the Santa Ana River Hydrologic Unit in the South Coast Hydrologic Region. This watershed is within the management area of the Santa Ana Regional Water Quality Control Board (SARWQCB) and subject to the management direction of the Water Quality Control Plan (Basin Plan) for the Santa Ana Region (SARWQCB 2019). The Santa Ana River flows over 100 miles from the San Bernardino Mountains to the Pacific Ocean and is generally divided into reaches, which are sections of a stream or river along which similar hydrologic conditions exist. The Santa Ana River is the receiving water for over 2,700 square miles covering portions of San Bernardino, Riverside, and Orange Counties. The SARWQCB governs basin planning and water quality in the Santa Ana River Hydrologic Unit.

Reach 3 of the Santa Ana River, which starts approximately at Mission Boulevard as it crosses the Santa Ana River and ends adjacent to the convergence of State Route 91 and State Route 71, is the receiving water for the majority of the City of Riverside (City), including the UCR campus (UCR 2021a). Surface waters start in the upper zone of the Santa Ana River Watershed, primarily the San Bernardino, Santa Ana, and San Jacinto Mountains. Flows consist mainly of snowmelt from the surrounding mountains and stormwater from the watershed. Tributaries to the Middle Santa Ana River (Reaches 3 and 4) include: Temescal Creek (Reaches 1 to 6), Tequesquite Arroyo (Sycamore Creek), Day Creek, and San Sevaine Creek. Cities in the Middle Santa Ana River Watershed include Corona, Eastvale, Jurupa Valley, Moreno Valley, Norco, and Riverside (Riverside County Flood

Control and Conservation District [RCFCWCD] 2017). Records show that average annual rainfall is approximately 11.4 inches per year (Jurupa Community Services District 2021).

Surface Water Quality

The SARWQCB develops water quality standards for the Santa Ana River to fulfill designated beneficial uses of the river. Water bodies that fail to meet these standards are listed as impaired, and a total maximum daily load (TMDL) limit may be required to establish the maximum pollutant load the water body may receive and still meet its water quality standards. Impairments for all reaches of the Santa Ana River and downstream reaches are summarized in Table 4.10-1, below.

Table 4.10-1 Santa Ana River Surface Water Pollutants and Contamination Categories

Water Body	Impairments	Integrated Report Category
Santa Ana River – Reach 1	Not impaired	Category 1
Santa Ana River – Reach 2	Not impaired	Category 1 ¹
Santa Ana River – Reach 3	Copper (TMDL Required) Indicator bacteria (TMDL Approved) Lead (TMDL Required)	Category 5
Santa Ana River – Reach 4	Indicator bacteria (TMDL Required)	Category 5
Santa Ana River – Reach 5	Not impaired	Category 2 ²
Santa Ana River – Reach 6	Cadmium (TMDL Required) Copper (TMDL Required) Lead (TMDL Required)	Category 5 ³

TMDL = Total Maximum Daily Load

¹ Category 1 Criteria: A water that fully supports at least one of its California beneficial uses, has other uses that are not assessed or lack sufficient information to be assessed, and for which no assessed uses are supported.

² Category 2 Criteria: A water segment with water quality information that is insufficient to determine an appropriate decision recommendation, for reasons such as: monitoring data have poor quality assurance, not enough samples in dataset, no existing numerical objective or evaluation guideline, the information alone cannot support an assessment, etc.

³ Category 5 Criteria: A water segment where standards are not met and a TMDL is required, but not yet completed, for at least one of the pollutants being listed for this segment.

Source: SWRCB 2018a, 2018b, and 2018c

As shown in Table 4.10-1, Reach 3 of the Santa Ana River is impaired for indicator bacteria, copper, and lead; Reach 4 is impaired for indicator bacteria; and Reach 6 of the Santa Ana River is impaired for cadmium, copper, and lead. The decomposition of excess organic waste may cause increased growth of undesirable organisms, such as bacteria, in the water. Pathogenic microorganisms (including bacteria, viruses, and protozoans) are associated with fecal waste and can cause a variety of diseases either through the consumption of contaminated shellfish or ingestion of tainted water (United States Environmental Protection Agency [USEPA] 2006). Metals of concern, including copper and lead, can be toxic to aquatic and human life. Humans can be impacted from contaminated groundwater resources and bioaccumulation of metals in fish and shellfish. Primary sources of metal pollution in stormwater are typically commercially available metals and metal products. Along with brake pads and tires from cars, the exposure of building materials, such as architectural copper to rain, can pollute stormwater runoff. Other potential metals sources include soil erosion, household chemicals, and pesticides (UCR 2021a).

Drainages and Drainage Patterns

Several arroyos, or dry creeks that experience flows in direct response to precipitation events in the City are tributaries to the Santa Ana River. Portions of these arroyos are in their natural state while other portions are disturbed by human activities and/or piped under urbanized areas before they reach the Santa Ana River. The major arroyos include Springbrook Wash, Tequesquite Arroyo, Alessandro Arroyo, Prenda Arroyo, Woodcrest Arroyo, and Mockingbird Canyon (UCR 2021a).

Flood Hazard Zones

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs) show that portions of the City are subject to flooding during a 100-year storm event. Flood hazard risks are greatest in the vicinity of channels, creeks, streams and watercourses. Areas of elevated risks include the Santa Ana River and several dams, including Sycamore Canyon Dam, Box Springs Dam, Mary Street Dam, Alessandro Dam, Prenda Dam, Woodcrest Dam, Mockingbird Canyon Dam, Harrison Dam, and Lake Mathews Dam (City of Riverside 2007).

Groundwater

The Riverside-Arlington Groundwater Subbasin (Groundwater Basin Number 8-2.03), underlies northwest Riverside County and southwest San Bernardino County. Groundwater in this subbasin is stored primarily in clay, silt, and gravel alluvium deposited by the Santa Ana River and its tributaries (UCR 2021a).

The Riverside-Arlington Groundwater Subbasin is bounded on the northwest by impermeable plutonic rocks of the Pedley Hills and Jurupa Hills, on the northeast boundary by the Rialto-Colton fault, on the southeast by impermeable rocks of the Box Springs Mountains, on the south by Arlington Mountain, and on the west by the La Sierra Hills and the adjoining Temescal Subbasin, which is separated from the Riverside-Arlington Groundwater Subbasin by a narrow bedrock constriction. The Santa Ana River flows over the northern portion of the Riverside-Arlington Groundwater Subbasin. A groundwater divide in the alluvium separates the Riverside portion from the Arlington portion of the subbasin (California Department of Water Resources [DWR] 2016). The Riverside-Arlington Groundwater Subbasin is replenished by infiltration from Santa Ana River flow, underflow past the Rialto-Colton fault, intermittent underflow from the Chino subbasin, return irrigation flow, wastewater discharge, and deep percolation of precipitation (Upper Santa Ana River Water Resources Association 2015).

The 1969 Western-San Bernardino Judgment (“Adjudication Judgment”) (*Western Municipal Water District [WMWD] of Riverside County et al. v. East San Bernardino County Water District et al.*, Case No. 78426) settled extraction rights throughout the Upper Santa Ana River watershed to meet flow obligations to lower reaches of the river. The Adjudication Judgment resulted in adjudication of a portion of the subbasin (the Riverside portion), with the remainder of the subbasin (the Arlington portion) remaining non-adjudicated. The basin area of the Riverside-Arlington Groundwater Subbasin is 56,563 acres. The adjudicated portion is 37,217 acres, or 65.8 percent, while the non-adjudicated portion is 19,346 acres, or 34.2 percent (UCR 2021a). The DWR has computed the groundwater volume for the non-adjudicated portion of this subbasin as 7,778 acre-feet (DWR 2019). Two watermasters, one appointed by the San Bernardino Valley Municipal Water District and one appointed by WMWD, oversee groundwater extractions in the adjudicated portions of the basin and ensure compliance with the judgment (Riverside Public Utilities [RPU] 2021a).

The Western-San Bernardino Judgment addresses groundwater management in the Rialto-Colton Subbasin, Riverside-Arlington Subbasin, and the San Bernardino Basin Area (SBBA), which contains the Bunker Hill and Lytle Creek Subbasins (RPU 2021a). The Adjudication Judgment provides a determination of the safe yield for the SBBA, establishes specific amounts of water that can be extracted from the SBBA by parties in Riverside County, and identifies the following requirements towards the purpose of maintaining sustainable groundwater conditions (Upper Santa Ana River Water Resources Association 2015):

- San Bernardino Valley Municipal Water District must provide replenishment for extractions from the SBBA by nonplaintiffs (entities in the San Bernardino Valley Municipal Water District service area) in aggregate exceeding 72.05 percent of the safe yield, which is 167,228 acre-feet per year
- WMWD must replenish the Rialto-Colton and Riverside-Arlington basins if extractions for use in Riverside County in aggregate exceed certain specific amounts
- San Bernardino Valley Municipal Water District must replenish the Rialto-Colton and Riverside-Arlington Subbasins if water levels are lower than certain specific water level elevations in specified wells

The Adjudication Judgment identifies parties responsible for replenishing groundwater extractions that result in overdraft or exceeding the identified safe yield of the affected basin or subbasin. For the Riverside-Arlington Subbasin, the requirement for replenishment is determined by groundwater levels in specified wells, which are indicative of safe yield in the area.

Groundwater management for approximately 65 percent of the Riverside-Arlington Groundwater Subbasin occurs through administration of an Adjudication Judgment by the Western-San Bernardino Watermaster. The portion of the Riverside-Arlington Groundwater Subbasin that is not adjudicated is identified by the DWR as a Low Priority groundwater basin. Basins that are designated as Medium or High Priority are subject to the Sustainable Groundwater Management Act (SGMA) of 2014, and a Groundwater Sustainability Plan is required to be developed and implemented by a DWR-approved Groundwater Sustainability Agency, toward the purpose of achieving and maintaining sustainable groundwater conditions. The Groundwater Sustainability Plan for the Riverside-Arlington Groundwater Subbasin was adopted by WMWD in January 2022 and is under DWR review (DWR 2023).

RPU has facilities that extract groundwater from five groundwater subbasins, including the Riverside North, Riverside South, and Arlington Subbasins. Currently, RPU is not extracting groundwater from the Arlington Subbasin due to the high levels of total dissolved solids and nitrates. RPU's extraction rights for the Riverside South and Riverside North Subbasins are as follows (RPU 2021a):

- **Riverside North Subbasin:** 10,902 acre-feet per year
- **Riverside South Subbasin:** 16,880 acre-feet per year

Groundwater Quality

Groundwater extracted by RPU is blended and chlorinated prior to distribution, reducing vulnerability to contamination at individual wells (RPU 2021a). In 2021, RPU collected approximately 29,100 water samples to test for a variety of potential contaminants. All samples were collected in the distribution system or at the entry point to the water distribution system (RPU 2021b).

Table 4.10-2 shows the contamination levels found during the water sampling.

Table 4.10-2 RPU System Groundwater Contamination Levels (Regulated Chemicals)

Contaminant Category	Contaminant	State Maximum Contaminant Level	State Public Health Goal	RPU Average	RPU Range	Sources in Drinking Water
Microbiological	Coliform	>5%	0 (MCLG)	0.18%	0-1.7%	Naturally present in environment
Clarity	Turbidity	Treatment Technique ¹	NS	0.05 NTU	100% Meeting turbidity limits	Soil runoff
Regulated Organic	Total Trihalomethanes	80 ug/L	NS	4 ug/L (Highest LRAA)	0.5-4.7 ug/L	By-product of drinking water disinfection
Regulated Organic	Chlorine	4 mg/L as Cl ₂	4 mg/L as Cl ₂	0.6 mg/L	0.21-0.89 mg/L	Naturally present in environment
Regulated Inorganic	Arsenic	10 ug/L	0.004 ug/L	ND	ND-3.7 ug/L	Erosion of natural deposits
Regulated Inorganic	Fluoride	2 mg/L	1 mg/L	0.5 mg/L	0.42-0.59 mg/L	Naturally present in environment
Regulated Inorganic	Nitrate (as nitrogen)	10 mg/L	10 mg/L	5.3 mg/L	4.3-6.5 mg/L	Naturally present in environment
Regulated Inorganic	Perchlorate	6 ug/L	1 ug/L	ND	ND-2.4 ug/L	Inorganic chemical used in variety of industrial operatives
Radiological	Uranium	20 pCi/L	0.43 pCi/L	6 pCi/L	4.4-8.3 pCi/L	Erosion of natural deposits
Lead/Copper	Copper	1300 ug/L	300 ug/L	440 ug/L	ND-840 ug/L	Internal corrosion of home plumbing

RPU = Riverside Public Utilities; MCLG = Maximum Contaminant Level Goal (The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the USEPA.); NS = no standard; NTU = Nephelometric Turbidity Unit; ug/L = micrograms per liter; LRAA = Locational Running Annual Average; mg/L = milligrams per liter; ND = not determined; Cl₂ = chlorine; pCi/L = picocuries per liter

¹A required process intended to reduce the level of contaminant in drinking water

Source: RPU 2021b

Campus and Project Site Setting

Surface Water

The UCR campus, including the project site, is within sub-watersheds of the Middle Santa Ana River Watershed. The project site is within the East Etiwanda Creek-Santa Ana River Sub-watershed (Hydrologic Unit Code 180702030804), which covers approximately 138,519 acres. The East Etiwanda Creek-Santa Ana River Sub-watershed stretches west from the Box Springs Mountain Preserve to its southwestern border at the Santa Ana River approximately at the convergence of State Route 91 and State Route 71 and to its northwestern border within the foothills of the Cucamonga Wilderness. The southern border of this sub-watershed overlays most of the UCR Botanic Gardens and stretches north, covering the project site (University of California, Davis 2022).

Drainages and Drainage Patterns

The general flow of runoff on the UCR campus is in a northwesterly direction (UCR 2021b). As such, the majority of runoff entering the UCR campus does so from the east. The existing storm drain network serving the UCR campus is comprised of UCR, City, and County of Riverside (County) drainage facilities. On-site and off-site stormwater is collected and discharged through overland flow, underground storm drains, and natural arroyos that ultimately discharge to open channel arroyos and large-diameter County drainage infrastructure.

The majority of East Campus, including the project site, is located in the 2,294-acre University Arroyo system, generally defined by the Box Springs Mountains and the campus hills on the east and south, Interstate 215/State Route 60 freeway on the west, and a line that follows West Linden Street, Valencia Hill Drive (north of the railroad), and the local foothills in the vicinity of Mount Vernon Drive on the north. Steep canyon tributaries from the mountains discharge surface runoff onto broad alluvial fans toward a confluence at Islander Park east of Watkins Drive. Surface runoff then flows westward towards UCR along Big Springs Road (UCR 2021a).

The approximately 20.1-mile-long Gage Canal, which runs underground parallel and adjacent to the western boundary of the location of the proposed STEM Education Center and T-Mobile Cell Tower Relocation Area and crosses through a portion of the electrical feeder line upgrade alignment, carries water from the Santa Ana River and local aquifers that are fed by the San Bernardino Mountains. The Gage Canal has historically been the source of agricultural water for local citrus ranches and the groves of California Citrus State Historic Park (California Department of Parks and Recreation 2022). The Gage Canal provides irrigation water service to RPU customers, including UCR. The Gage Canal delivers approximately 36,000 to 39,000 acre-feet of water to the Arlington Heights area of the City. Approximately 55 percent of the water is delivered to citrus areas with the remaining 45 percent delivered to the City reservoir (Riverside-Corona Resource Conservation District 2022). The UCR East campus is irrigated with water from the Gage Canal.

Flood Hazard Zones

Campus arroyos and major storm drainages are located in areas subject to flooding in response to the 100-year storm event; that is the magnitude storm that has potential to occur once every 100 years, or has a one percent chance of occurring during any given year. FEMA identifies the majority of the UCR campus as Zone X, which refers to an Area of Minimal Flood Hazard. The project site is also located in Zone X, as shown on FEMA's FIRM 06065C0727G (FEMA 2008).

Groundwater

The project site lies within the boundaries of the Upper Santa Ana Valley Groundwater Basin and is underlain by the adjudicated portion of the Riverside-Arlington Groundwater Subbasin. The UCR campus and project site are not designated as a groundwater recharge area and do not serve as a primary source of groundwater recharge in the subbasin. The soils underlying East Campus, including the project site are designated as Class D, the least-permeable soil type (UCR 2021a). As described in the California DWR's Bulletin 118 for the Upper Santa Ana Valley Groundwater Basin, groundwater flow direction is defined by local fault presence and generally flows in a northwest direction then flows southwest to Arlington Gap, through which it flows into the Temescal Subbasin (DWR 2004). Based on historical well data in the vicinity, it is estimated that groundwater depths near the project site as well as the overall UCR campus vary from approximately 73 feet below the ground surface to 175 feet below ground surface (UCR 2021a).

4.10.3 Regulatory Framework

Federal

Clean Water Act

Congress enacted the Clean Water Act (CWA), formally the Federal Water Pollution Control Act of 1972, with the intent of restoring and maintaining the chemical, physical, and biological integrity of waters of the United States (U.S.). The act established the basic structure for regulating discharges of pollutants into the waters of the U.S. and requires states to set standards to protect, maintain, and restore water quality through the regulation of point source and non-point source discharges to surface water. Those discharges are regulated by the National Pollutant Discharge Elimination System (NPDES) permit process (CWA Section 402). At the State and regional levels in California, the SWRCB and its nine RWQCBs administer NPDES permitting authority and enforce the CWA. The UCR campus is under the jurisdiction of the SARWQCB (Region 8).

SECTION 303 (WATER QUALITY STANDARDS AND TOTAL MAXIMUM DAILY LOADS)

Section 303(d) of the CWA requires states to identify “impaired” water bodies as those which do not meet water quality standards. States are required to compile this information in a list and submit the list to the USEPA for review and approval. This list is known as the Section 303(d) list of impaired waters. As part of this listing process, states must prioritize waters and watersheds for future development of TMDLs. TMDLs are estimates of the total load of pollutants from point, non-point, and natural sources that a water body may receive without exceeding applicable water quality standards. Once established, the TMDL is allocated among current and future pollutant sources to the water body. The SWRCB and RWQCBs enact ongoing efforts to monitor and assess water quality, prepare the Section 303(d) list, and develop TMDL requirements.

SECTION 311 (SPILL PREVENTION, CONTROL, AND COUNTERMEASURES PLAN)

Section 311 of the CWA requires any person in charge of a vessel, an onshore facility, or an offshore facility, as soon as she/he has knowledge of any discharge of oil or a hazardous substance that may be harmful, to notify immediately the appropriate federal agency of the discharge. The regulation requires that all regulated facilities fully prepare and implement a Spill Prevention, Control, and Countermeasures (SPCC) Plan. A SPCC Plan is a detailed, facility-specific, written description of how a facility’s operations comply with the prevention guidelines in the Oil Pollution Prevention regulation. These guidelines include measures such as secondary containment, facility drainage, dikes or barriers, sump and collection systems, retention ponds, curbing, tank corrosion protection systems, and liquid devices. A registered professional engineer must certify each SPCC Plan, unless the owner/operator is able to, and chooses to, self-certify the plan.

The regulation applies to non-transportation-related facilities with a total aggregate aboveground (i.e., not completely buried) oil storage capacity of greater than 1,320 gallons or total underground (i.e., buried) oil storage capacity greater than 42,000 gallons. This regulation applies specifically to a facility’s storage capacity (regardless of whether the tank[s] are filled). In addition to the storage capacity criteria, a reasonable expectation must exist that the facility, due to its location, could discharge oil into navigable waters of the U.S. or adjoining shorelines, or certain other areas.

SECTION 401 (WATER QUALITY CERTIFICATION)

Under Section 401 of the CWA, the RWQCBs have regulatory authority over actions in waters of the U.S. and/or the State of California through the issuance of water quality certifications, which are issued in conjunction with any federal permit (e.g., permits issued by the U.S. Army Corps of Engineers [USACE] under Section 404 of the CWA, described below). Section 401 of the CWA requires that the RWQCB certify any activity that may result in discharges into a Federal water body. This certification indicates the proposed activity does not violate federal and/or State water quality standards, including those protecting beneficial uses and water quality. The limits of non-tidal waters extend to the Ordinary High Water Mark, defined as the line on the shore established by the fluctuation of water and indicated by physical characteristics, such as natural line impressed on the bank, changes in the character of the soil, and presence of debris. The USACE may issue either individual, site-specific permits or general, nationwide permits for discharge into waters of the U.S.

SECTION 402 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT)

Section 402 of the CWA regulates point-source (e.g., pipe, ditch, or channel) discharges to surface waters (other than dredge or fill material), requiring permission under the NPDES permitting system, administered by the USEPA. All NPDES permits are written to ensure that the surface water receiving discharges will achieve specified water quality standards. In California, the NPDES permit program is administered by the SWRCB through the RWQCBs and requires municipalities to obtain permits that outline programs and activities to control wastewater and stormwater pollution. The SWRCB establishes requirements prescribing the quality of point sources of discharge and water quality objectives, which are based on the designated beneficial uses (e.g., water supply, recreation, and habitat) for a particular surface water body. The NPDES permits are issued to point source dischargers of pollutants to surface waters pursuant to Water Code Chapter 5.5, which implements the federal CWA. Examples include, but are not limited to, public wastewater treatment facilities, industries, power plants, and groundwater cleanup programs discharging to surface waters. The RWQCB establishes and regulates discharge limits under the NPDES permits.

SECTION 404 (DISCHARGE OF DREDGE AND FILL OF WATERS OF THE UNITED STATES PERMIT)

Section 404 of the CWA allows the discharge of fill material into waters of the U.S., including wetlands, lakes, streams, and rivers, as permitted under approval by the USACE and USEPA. To discharge dredged or fill material into waters of the U.S., including wetlands, Section 404 requires projects to receive authorization from the Secretary of the Army, acting through the USACE.

The USACE identifies wetlands using a multi-parameter approach, which requires positive wetland indicators in three distinct environmental categories: hydrology, soils, and vegetation. According to the *Corps of Engineers Wetlands Delineation Manual (1987)*, except in certain situations, all three parameters must be satisfied for an area to be considered a jurisdictional wetland. The *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* is also used when conducting jurisdictional wetland determinations in areas identified in the boundaries of the arid west, such as the Coachella Valley (USACE 2008).

When an application for a Section 404 permit is made, the applicant must show it has:

- Taken steps to avoid impacts to wetlands or waters of the U.S. where practicable
- Minimized unavoidable impacts on waters of the U.S. and wetlands
- Provided mitigation for unavoidable impacts

National Flood Insurance Program

The FEMA oversees floodplain management and runs the National Flood Insurance Program adopted under the National Flood Insurance Act of 1968. FEMA prepares FIRMs that delineate the regulatory floodplain to assist local governments with land use and floodplain management decisions to meet the requirements of the National Flood Insurance Program. In general, the National Flood Insurance Program mandates that new development is not to proceed in the 100-year regulatory floodplain if the development is expected to increase flood elevation by one foot or more. Very limited development is allowed in designated 100-year floodways (i.e., flood flow channels and areas with sufficient directional flow velocity of 100-year floodwaters).

National Pollutant Discharge Elimination Program

CONSTRUCTION GENERAL PERMIT

The SWRCB adopted an NPDES Construction General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit; "CGP") (Order 2009-0009, as amended by Orders 2010-0014-DWQ and 2012-006-DWQ). Projects that disturb one or more acres of soil, or projects that disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to comply with the CGP. Activities subject to the CGP include clearing, grading, and disturbances to the ground, such as grubbing or excavation. This permit also covers linear underground and overhead projects such as pipeline installations.

The CGP requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP should contain a site map which shows the construction site perimeter, existing and proposed buildings, lots, roadways, stormwater collection and discharge points, general topography both before and after construction, and drainage patterns across the project site. The purpose of the SWPPP is: (1) to help identify the sources of sediment and other pollutants that could affect the quality of stormwater discharges and (2) to describe and ensure the implementation of best management practices (BMPs) to reduce or eliminate sediment and other pollutants in stormwater as well as non-stormwater discharges resulting from construction activity. The CGP includes a menu of BMPs to be selected and implemented based on the phase of construction and the weather conditions to effectively control erosion, sediment, and other construction-related pollutants to meet the Best Available Technology Economically Achievable and Best Conventional Pollutant Control Technology standards. Erosion-control BMPs are designed to prevent erosion, whereas sediment controls are designed to trap sediment once it has been mobilized. Such BMPs include:

- Silt fences and/or fiber rolls installed along limits of work and/or the project construction site
- Stockpile containment and exposed soil stabilization structures (e.g., visqueen, fiber rolls, gravel bags, and/or hydroseed)
- Runoff control devices (e.g., fiber rolls, gravel bag barriers/chevrons) used during construction phases conducted during the rainy season
- Wind erosion (dust) controls
- Tracking controls at the site entrance, including regular street sweeping and tire washes for equipment
- Prevention of fluid leaks (inspections and drip pans) from construction vehicles
- Materials pollution management

- Proper waste/trash management
- Regular inspections and maintenance of BMPs

Additionally, the SWPPP must contain a visual monitoring program, a chemical monitoring program for "non-visible" pollutants, and a sediment monitoring plan if the site discharges directly to a water body listed on the USEPA 303(d) list for sediment. The SWPPP must be prepared by a Qualified SWPPP Developer and submitted to the SWRCB. A Qualified SWPPP Practitioner (QSP) is required during construction activities to monitor the construction site and ensure the recommendations and requirements outlined in the SWPPP are implemented correctly. The QSP is responsible for protecting the owner's interests during construction; a contractor-provided QSP could result in a conflict of interest if the QSP determines the contractor needs to provide additional services beyond what is identified in the project SWPPPs. The CGP uses a risk-based permitting approach and mandates certain requirements based on the project risk level (Level 1, Level 2, or Level 3). The project risk level is based on the risk of sediment discharge and the receiving water risk. The sediment discharge risk depends on project location and timing (such as wet season versus dry season activities). The receiving water risk depends on whether the project would discharge to sediment-sensitive receiving water.

NPDES MS4 PERMITS

The SARWQCB has issued Order No. R8-2010-0033 (adopted January 29, 2010) and adopted NPDES Permit No. CAS 618033 for municipal stormwater and urban runoff discharges in the RCFCWCD, the County, and the incorporated cities of the county within the Santa Ana Region. In compliance with the permit, the Santa Ana Region has implemented a Water Quality Management Plan (WQMP) and a Drainage Area Management Plan (DAMP) with the ultimate goal of accomplishing the requirements of the permit and reducing the quantity of pollutants in stormwater and urban runoff. The proposed project would be required to comply with the NPDES Phase I permit requirements on the portion of the project site that is not owned by UCR (Assessor's Parcel Number 250-220-003).

NPDES Phase I Provision C.3 addresses post-construction stormwater management requirements for new development and redevelopment projects that add and/or replace 10,000 square feet or more of impervious area. NPDES Provision C.3 requires the incorporation of site design, source control, and stormwater treatment measures into development projects to minimize the discharge of pollutants in stormwater runoff and non-stormwater discharges and to prevent increases in runoff flows. Site design requirements for new developments and redevelopments include stipulations to minimize the area of new roofs and paving and treat runoff, and in some cases, control the rates and durations of site runoff. Where feasible, pervious surfaces should be used instead of paving so that runoff can infiltrate to the underlying soil. Runoff should be dispersed to landscaping where possible. Remaining runoff from impervious areas must be treated using bioretention. In some developments, the rates and durations of site runoff must also be controlled.

The NPDES Phase I Provision C.3 requirements are separate from, and in addition to, requirements for erosion and sediment control and for pollution prevention measures during construction. In addition, UCR must execute agreements to allow verification that stormwater treatment and flow-control facilities that are approved as part of new development are maintained in perpetuity. Low impact development (LID) methods are the primary mechanism for implementing such controls. The NPDES Permit provision requires five Control Design Criteria to be implemented: range of flows to control, goodness of fit criteria, allowable low-flow rate, standard hydromodification modeling, and alternate hydromodification modeling and design.

NPDES Phase II addresses Small Municipal Separate Stormwater Sewer Systems (MS4s). On April 30, 2003, as part of Phase II, the SWRCB issued a General Permit for the Discharge of Stormwater from Small MS4s (WQ Order No. 2003-0005-DWQ) to provide permit coverage for smaller municipalities (population less than 100,000), including non-traditional small MS4s covering facilities such as military bases, public campuses, prisons, and hospital complexes. UCR is not subject to the NPDES Phase I MS4 permit, but rather is designated a non-traditional permittee under the Phase II Small MS4 General Permit. The Phase II Small MS4 General Permit covers Phase II Permittees statewide. On February 5, 2013, the Phase II Small MS4 General Permit was adopted and became effective on July 1, 2013 (WQ Order No. 2013-0001-DWQ). UCR was approved for coverage under the Phase II MS4 permit program (NPDES No. CAS000004) and is required to comply with the requirements of the MS4 permit, including implementation of a stormwater quality management program with the goal of accomplishing the requirements of the permit and reducing the quantity of pollutants in stormwater and urban runoff. The proposed project would be required to comply with the NPDES Phase II permit requirements on the portion of the project site that is owned by UCR (Assessor's Parcel Numbers 250-220-008 and 250-220-006).

Under the NPDES Phase II MS4 General Permit, UCR is required to visually monitor open channels, detention basins and other drainage structures for debris at least once per year and identify/prioritize problem areas and inspect all operations and management BMPs quarterly. UCR has been implementing a landscape design and maintenance program that reduces the quantity of pesticides, herbicides and fertilizers used on new or decorative landscapes. UCR employs a Post-Construction Stormwater Management Requirements Checklist to ensure projects adequately implement BMPs as required under the Phase II Small MS4 General Permit. Additionally, the NPDES permit provides for alternative compliance measures and encourages participation in multi-benefit projects that may be applied at various scales, including the project site, municipal, or sub-watershed levels. Other UCR requirements under the MS4 permit include:

- Public education and outreach
- Staff training to prevent and eliminate illicit discharges and pollution
- Illicit discharge detection and elimination
- Construction site stormwater runoff control and pollution prevention
- Post-construction site stormwater runoff control program for new development and redevelopment
- Facilities mapping, inventory, and assessment for pollution prevention
- SWPPPs for high-priority facilities
- Inspections, visual monitoring, and remedial action
- Storm drain system assessment, prioritization, and maintenance
- Assessment of operations and maintenance activities to reduce runoff and pollution
- Stormwater program modifications
- Reporting and documentation

Because both the Phase I and Phase II permits would be applicable, the proposed project would be required to comply with the more stringent permitting requirements, which are contained in the Phase I permit, as well as with the reporting provisions of the Phase II MS4 General Permit.

National Toxics Rule and California Toxics Rule

In 1992, the USEPA promulgated the National Toxics Rule under the CWA to establish numeric criteria for priority toxic pollutants for 14 states to bring all states into compliance with the requirements of CWA Section 303(c)(2)(B). The National Toxics Rule established water quality standards for 42 pollutants not covered under California's statewide water quality regulations at that time. As a result of the court-ordered revocation of California's statewide basin plans in September 1994, the USEPA initiated efforts to promulgate additional federal water quality standards for California. In May 2000, the USEPA issued the California Toxics Rule (discussed later in more detail), which includes all the priority pollutants for which the USEPA has issued numeric criteria not included in the National Toxics Rule.

State

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (Division 7 of the California Water Code) is the primary statute covering the quality of waters in California. Under the act, the SWRCB has the ultimate authority over the State's water quality policy. The SWRCB administers water rights, water pollution control, and water quality functions throughout the State, while the nine RWQCBs conduct planning, permitting, and enforcement activities. The RWQCBs also regulate water quality under this act through the regulatory standards and objectives established in Water Quality Control Plans (also referred to as Basin Plans) prepared for each region.

Section 13260(a) of the Porter-Cologne Water Quality Control Act requires any person discharging waste or proposing to discharge waste, other than to a community sewer system, in any region that could affect the quality of waters of the State (all surface and subsurface waters) to file a report of waste discharge. The discharge of dredged or fill material may constitute a discharge of waste that could affect the quality of waters of the State.

Historically, California relied on its authority under Section 401 of the CWA to regulate discharges of dredged or fill material to waters of the U.S. Section 401 requires UCR to obtain "water quality certification" from the State Water Board through its RWQCBs to ensure compliance with State water quality standards before certain federal licenses or permits may be issued. The permits subject to Section 401 include permits for the discharge of dredged or fill materials (CWA Section 404 permits) issued by the USACE. The RWQCBs typically waived waste discharge requirements under the Porter-Cologne Water Quality Control Act for projects or plans that also required Section 401 certification. Following the U.S. Supreme Court's decision, *Rapanos v. United States*, 547 U.S. 715 (2006), which limited the jurisdiction of wetlands under the CWA, the RWQCBs generally rely on the waste discharge requirements process to regulate discharges into waters of the State. The UCR campus is not considered a point source for regulatory purposes and is not subject to Waste Discharge Requirements.

California Toxics Rule and State Implementation Policy

The California Toxics Rule, presented in 2000 in response to requirements of USEPA's National Toxics Rule, establishes numeric water quality criteria for approximately 130 priority pollutant trace metals and organic compounds. The California Toxics Rule criteria are regulatory criteria adopted for inland surface waters, enclosed bays, and estuaries in California that are on the CWA Section 303(c) list for contaminants. The California Toxics Rule includes criteria for the protection of aquatic life and human health. Human health criteria (water- and organism-based) apply to all waters with a

Municipal and Domestic Water Supply beneficial use designation as indicated in the basin plans. The Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, also known as the State Implementation Policy, was adopted by the State Water Board in 2000. The goal of the State Implementation Policy is to establish a standardized approach for permitting discharges of toxic effluent to inland surface waters, enclosed bays, and estuaries throughout the State. It establishes provisions for translating the California Toxics Rule criteria, National Toxics Rule criteria, and basin plan water quality objectives for toxic pollutants into:

- NPDES permit effluent limits
- Effluent compliance determinations
- Monitoring for 2,3,7,8-tcdd (dioxin) and its toxic equivalents
- Chronic (long-term) toxicity control provisions
- Site-specific water quality objectives
- Effluent compliance exceptions

Sustainable Groundwater Management Act

In September 2014, Governor Brown signed a three-bill package known as the Sustainable Groundwater Management Act (SGMA) into law, establishing a framework for local groundwater management and requiring local agencies to bring overdrafted basins into balanced levels of pumping and recharge. The SGMA gives local agencies the power to sustainably manage groundwater and requires groundwater sustainability plans to be developed for medium- and high-priority groundwater basins, as defined by DWR. DWR released the Sustainable Groundwater Management Act 2018 Basin Prioritization report, which outlined the process involved with reassessing the priority of the groundwater basins in California following the 2016 basin boundary modifications. This process designated the Arlington Basin, which underlies the project site, as very low-priority; thus, preparation of a groundwater sustainability plan is not required (WMWD 2022).

Article IX of the California Constitution

The Regents of the University of California is a Constitutional Corporation, organized under Article IX, Section Nine of the California Constitution, with full authority over governance and management of University operations. Under this authority, UCR has legal authority to prevent illicit discharges into its system, including control of inflow and infiltration sources such as stormwater, chemical dumping, or debris.

University of California

UC Policy on Sustainable Practices

The UC established the UC Policy on Sustainable Practices, with the most recent update made in July 2023. Per agreement of UCR and RUSD, the proposed project would be subject to compliance with the Sustainable Practices Policy in effect at the time (September 2018), including the following:

- **Policy I.1:** Locations will reduce growth-adjusted potable water consumption 20 percent by 2020 and 36 percent by 2025, when compared to a three-year average baseline of FY2005/06, FY2006/07, and FY2007/08. UCR has achieved that goal (UCR 2021a). Each campus shall strive to reduce potable water used for irrigation by converting to recycled water, implementing efficient irrigation systems, planting drought-tolerant planting selections, and/or by removing turf.

- **Policy I.2:** Each location will develop and maintain a Water Action Plan that identifies long term strategies for achieving sustainable water systems.
- **Policy I.4:** New equipment requiring liquid cooling shall be connected to an existing recirculated building cooling water system, new local chiller vented to building exhaust or outdoors, or to the campus chilled water system through an intervening heat exchange system, if available.
 - Once-through or single-pass cooling systems shall not be allowed for soft-plumbed systems using flexible tubing and quick connect fittings for short term research settings.
 - If no alternative to single-pass cooling exists, water flow must be automated and controlled to avoid water waste.

University of California, Riverside

UCR CleanWater Stormwater Management Program

The UCR campus is a non-traditional permittee under the Phase II Small MS4 Statewide General Stormwater Permit, as described earlier. UCR Environmental Health & Safety administers the UCR CleanWater Stormwater Management Program to ensure compliance with all Phase II Small MS4 Statewide General Stormwater Permit requirements.

Spill Prevention, Control, and Countermeasures Plan

UCR has prepared an SPCC Plan in accordance with Section 311 of the CWA, which has been developed pursuant to 40 Code of Federal Regulations Part 112 general requirements for SPCC Plans. The SPCC Plan was created to address potential spills from oil storage containers and bulk storage containers at the UCR campus. The SPCC Plan was last updated in 2018.

Sewer System Management Plan

The UCR Sanitary Sewer Management Plan was developed by UCR to comply with SWRCB Order No. 2006-0003-DWQ. The plan directs appropriate management of the sanitary sewer system to prevent sanitary sewer overflows, prohibits any sanitary sewer overflow that results in a discharge of untreated or partially treated wastewater to waters of the U.S., and prohibits any sanitary sewer overflow that results in a discharge of untreated or partially treated wastewater that creates a nuisance as defined in California Water Code Section 13050(m).

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP also includes objectives and policies related to hydrology and water quality that are applicable to the proposed project, which are summarized in Table 4.10-3.

Table 4.10-3 UCR 2021 LRDP Objectives and Policies Related to Hydrology and Water Quality

Objective	Policy
Open Space	
Demonstrate an increased commitment to preservation and enhancement of the natural environment through the design and placement of future campus landscapes.	Consider the ecological and potential stormwater management functions of proposed landscapes. Utilize climate-appropriate, native/drought-tolerant, and/or low maintenance landscape materials outside of signature campus open spaces.
Infrastructure and Sustainability	
Explore options to shift away from potable water use where feasible.	Achieve a further 20 percent reduction of potable water use for irrigation by extending Gage Canal water to also irrigate the UCR Botanic Gardens and reducing turf on campus and replacing it with lower water use landscaping.
Stormwater	
Transition the campus lands to manage stormwater in a manner that replicates natural drainage patterns and allow plants to filter pollutants out of runoff and promote infiltration overflowing into waterways, thus meeting regulatory requirements through innovative, attractive, and cost-efficient solutions.	Prepare and maintain a Stormwater Management Program (SWMP) to account for the additional runoff from the projected new development to meet the requirements of the State of California’s mandated Phase II Small MS4 Section F.5.g. (Post-Construction SWMP), including Section F.5.g.3. (Alternative Post-Construction SWMP) consistent with the Maximum Extent Practicable standard. To the extent feasible, integrate stormwater infrastructure within the open space framework of campus such that developable campus lands are minimally lost. The SWMP will include planning and design strategies to restore, enhance, and maintain hydrological function on campus and in the regional hydrological system in response to the projected development.

Source: UCR 2021b

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

Santa Ana River Basin Water Quality Control Plan

The SARWQCB (Region 8) issues permits for projects that may affect surface waters and groundwater locally and is responsible for the Santa Ana River Basin Water Quality Control Plan (Basin Plan). The Basin Plan designates beneficial uses of water in the region and establishes narrative and numerical water quality objectives. Water quality objectives, as defined by the CWA Section 13050(h), are the “limits or levels of water quality constituents or characteristics which are established for the reasonable protection of beneficial uses or the prevention of nuisance within a specific area.” The Basin Plan serves as the basis for the SARWQCB’s regulatory programs and incorporates an implementation plan to ensure water quality objectives are met. Basin Plans undergo a triennial review process, with the SARWQCB’s Basin Plan most recently updated in June 2019 (SARWQCB 2019).

Resolution R8-2005-0001 amended the Basin Plan to incorporate Bacterial Indicator TMDLs for Middle Santa Ana River Watershed Waterbodies. At its Board meeting held on January 29, 2010, the RWQCB adopted Order RB8-2010-0033, which approved a revised MS4 permit for Riverside County. This permit includes requirements for Comprehensive Bacteria Reduction Plans to address excessive levels of bacteria in impaired Middle Santa Ana River waterbodies. Comprehensive Bacteria Reduction Plans for Riverside County were approved by the SARWQCB at the Board meeting held on February 10, 2012, as Resolution R8-2012-0015. UCR discharges into the Santa Ana River Reach 3, which has an approved TMDL for pathogens.

Under the Phase II MS4, permittees must comply with applicable TMDL based requirements. For UCR, TMDL specific requirements include watershed-wide attainment monitoring and facility-specific bacterial indicator monitoring program and bacterial indicator reduction plans.

Municipal Regional Stormwater NPDES Permit

On January 29, 2010, the SARWQCB adopted Order R8-2010-0033, as amended by Order R8-2013-0024 (NPDES Permit and Waste Discharge Requirements for the RCFCWCD, the County of Riverside, and the incorporated cities of Riverside County in the Santa Ana Region), otherwise known as the MS4 permit. The City is a co-permittee under the Riverside County MS4 permit. One component of the Phase I MS4 permit requires the development of site-specific WQMPs for new development and significant redevelopment projects. WQMPs include site design, source control, and treatment elements to reduce stormwater pollution from urban runoff (SARWQCB 2010). UCR is not subject to the NPDES Phase I MS4 permit but rather is designated a non-traditional permittee under the Phase II Small MS4 General Permit, as noted earlier. The Phase II Small MS4 also requires site design, source control, and treatment elements to reduce stormwater pollution from urban runoff.

On April 7, 2015, the SARWQCB adopted statewide trash provisions to address impacts of trash on surface waters in the region. The trash provisions outline additional requirements for all MS4 permittees, including either installation of full capture systems for all storm drains capturing runoff from priority land uses, or a combination of full capture systems, multi-benefit projects, treatment controls, and/or institutional controls to reduce trash accumulation in surface waters (SWRCB 2015). UCR is bound by the Statewide trash provisions and received a California Water Code Section 13383 Order in June 2017 to comply with specific initial requirements.

South Coast Air Quality Management District Fugitive Dust Rule

South Coast Air Quality Management District (SCAQMD) Rule 403 (Fugitive Dust) is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent, reduce, or mitigate fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and identifies measures to reduce fugitive dust. This includes soil treatment for exposed soil areas. Treatment shall include, but not necessarily be limited to, periodic watering, application of environmentally safe, non-toxic soil stabilization materials, and/or roll compaction as appropriate. However, during times of drought, SCAQMD's limits potable water dust suppression by "increasing reliance on non-toxic chemical dust suppressants to stabilize soils." (SCAQMD 2014)

Riverside County Drainage Area Management Plan

The Riverside County DAMP, developed by the RCFCWCD and other co-permittees to the MS4 Permit, outlines programs and policies to manage urban runoff. The DAMP includes development review procedures for co-permittees, required construction BMPs and inspection frequency, annual

reporting and evaluation framework, and TMDL implementation strategies. The DAMP is the primary document outlining compliance procedures for co-permittees to adhere to the requirements of the MS4 Permit in Riverside County. The DAMP for the Santa Ana Region was last updated in 2017 (RCFCWCD 2017).

Riverside County Watershed Action Plan

The Riverside County Watershed Action Plan is intended to enable co-permittees under the Riverside County MS4 Permit to address watershed-level water quality impacts associated with urbanization (County of Riverside 2017). The Watershed Action Plan describes the Santa Ana Watershed, applicable MS4 programs (e.g., the DAMP, WQMPs), and the development review process for new development and redevelopment projects.

Riverside County Flood Control and Water Conservation District Low Impact Development Best Management Practices

Developed in 2011 by the RCFCWCD, the Design Handbook for Low Impact Development Best Management Practices describes LID guidelines for projects to reduce downstream erosion by more closely mimicking pre-project hydrology and minimizing pollutant runoff. The handbook details strategies for selecting appropriate LID BMPs, design capture volume requirements for BMPs, and sizing calculation methodology for BMP implementation in specific watersheds in the County (RCFCWCD 2011).

City of Riverside General Plan

PUBLIC SAFETY ELEMENT

The Public Safety Element contains polices to address flood hazards and drought, and the Action Plan implements Public Safety Element goals via actions to reduce flood risks and exposure, strengthen agency coordination for maintenance and monitoring of floods, require building design that would withstand a one percent annual chance of flood, and require drainage studies (City of Riverside 2021a and 2021b).

OPEN SPACE AND CONSERVATION ELEMENT

The Open Space and Conservation Element contains objectives and policies to minimize impacts to groundwater and surface water resources, coordinate public and private entities that affect the consumption and quality of water resources in Riverside, enforce RWQCB and NPDES regulations regarding urban runoff and water quality standards, and protect aquifer recharge features (City of Riverside 2012a).

PUBLIC FACILITIES AND INFRASTRUCTURE ELEMENT

The Public Facilities and Infrastructure Element contains policies to protect local groundwater resources from localized and regional contamination, reduce stormwater flows into the wastewater system and the Santa Ana River, cooperate in regional programs to implement the NPDES program, and routinely monitor and evaluate the effectiveness of the storm drain system (City of Riverside 2012b).

Riverside Municipal Code

The City's Municipal Code contains the following requirements and ordinances relevant to hydrology and water resources.

TITLE 14, CHAPTER 14.12 (WASTE DISCHARGE TO SEWERS AND STORM DRAINS)

Title 14, Chapter 14.12 of the City's Municipal Code regulates the discharge of wastes to the public sewer and pollutants into the storm drain systems. Section 14.12.315 prohibits the discharge of pollutants to the storm drainage system or any waterway, whether carrying water or not. Section 14.12.316 requires the preparation of a WQMP and installation of BMPs for new development and redevelopment projects in the City, and Section 14.12.319 outlines inspection and enforcement for post-construction requirements detailed in the project's WQMP (City of Riverside 2022a).

TITLE 16, CHAPTER 18 (DEVELOPMENT IN FLOOD HAZARD AREAS)

Title 16, Chapter 18 of the Riverside Municipal Code contains regulations pertaining to flood hazard areas in the City and implements the National Flood Insurance Program. Specifically, the ordinance outlines the process for development permit review by the Floodplain Administrator or designee as well as floodplain construction materials and standards (City of Riverside 2022b).

TITLE 17 (EROSION AND RUNOFF FROM GRADING)

Title 17 of the Riverside Municipal Code describes regulations pertaining to grading, including those intended to minimize erosion and runoff. Section 17.16.010 outlines grading permit application requirements, including noticing requirements to the SWRCB for coverage under the statewide CGP and preparation of a SWPPP (City of Riverside 2022c).

TITLE 19 (WATER EFFICIENT LANDSCAPING AND IRRIGATION ORDINANCE)

Title 19, Chapter 19.570 of the Riverside Municipal Code contains the City's Water Efficient Landscaping and Irrigation Ordinance, which is intended to promote quality landscaping as well as efficient use of water in the City. The ordinance requires preparation and implementation of a planting plan that identifies the Maximum Applied Water Allowance and the Estimated Annual Water Use of the project's landscaping as well as irrigation design and soil management plans (City of Riverside 2022d).

4.10.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 *CEQA Guidelines* Appendix G significance criteria questions related to Hydrology and Water Quality to assess the proposed project.

Would the proposed project:

- a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?
- b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

- c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
 - i. Result in substantial erosion or siltation on- or off-site?
 - ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?
 - iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?
 - iv. Impede or redirect flood flows?
- d. Risk release of pollutants due to project inundation in flood hazard, tsunami, or seiche zones?
- e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Methodology

Impacts related to hydrology and water quality were determined by reviewing information regarding regional and local hydrology, climate, topography, and geology disclosed in UCR's 2021 LRDP EIR, the Arlington Basin Groundwater Sustainability Plan, and FEMA Flood Insurance Rate Maps. To evaluate the potential impacts of the proposed project on hydrology and water quality, the analysis assesses the degree to which implementation of the proposed project would affect water quality, groundwater supplies, drainage patterns, flood hazards, and implementation of applicable management plans. Water quality conditions are compared with water quality standards by identifying potential contaminants and pollution pathways, amount of impervious area, and runoff treatment requirements. Flood hazards were evaluated based on a review of potential flood risk, as denoted by FEMA.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?
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Impact HYD-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT VIOLATE ANY WATER QUALITY STANDARDS OR WASTE DISCHARGE REQUIREMENTS OR OTHERWISE SUBSTANTIALLY DEGRADE SURFACE OR GROUND WATER QUALITY. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Construction

Pollutants associated with construction activities in general include soils, debris, other materials generated during demolition and clearing, fuels and other fluids associated with the equipment used for construction, paints, other hazardous materials, concrete slurries, and asphalt materials. During construction, materials such as aggregate-base rock for parking area subgrade, sand bedding and backfill for utility lines, and crushed rock for building foundations would be brought to the project site. Without regulatory compliance, project construction activities also have the potential to cause spills of fuel, oils, paint, or other materials from construction equipment or activities if not

properly contained. Additionally, the removal of vegetation, excavation, grading, and stockpiling of soils for the proposed building foundations, driveways, and utility trenching have the potential to result in soil disturbance that can accelerate erosion, especially during storm events.

The proposed project would be required to comply with the requirements of the NPDES Phase I permit (NPDES Permit No. CAS 618033) as well as the reporting provisions of the Phase II MS4 Small Statewide General Storm Permit. The NPDES Phase I permit requires the prevention of construction site discharges of pollutants through the installation, implementation, and maintenance of erosion, sediment control, and pollution prevention BMPs. Furthermore, the proposed project would be subject to the provisions of the NPDES CGP, which requires the implementation of BMPs through a project-specific SWPPP. Typical BMPs within a SWPPP include, but are not limited to, watering of exposed soils; installation of sandbags to minimize off-site runoff; proper storage, use, and disposal of construction materials; installation of silt fences and erosion control blankets; and protection or stabilization of stockpiled soils. The CGP also requires inspection, monitoring, and reporting to ensure BMPs are being implemented. Corrective action within 72 hours is required for any issue of noncompliance identified during monitoring and inspections. With regulatory adherence, the proposed project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality. Impacts from construction would be **less than significant**.

Operation

Operation of the proposed project would occur in compliance with a project-specific WQMP prepared in compliance with City standards. The WQMP would provide guidelines for project-specific post-construction BMPs to address management of urban runoff quantity and quality and to protect water quality. The WQMP requires the applicant provide LID design features, accept responsibility for the continued implementation of BMPs throughout operation, detail maintenance requirements for selected BMPs, and provide figures delineating new impervious surfaces and corresponding BMPs. Storm drain infrastructure for the proposed project may include area drains, roof drain connections, and/or piped conveyance of stormwater to water quality treatment basins/devices and connections to the existing storm drain system. Water quality treatment may consist of biofiltration basins, proprietary treatment devices, and/or underground storage vaults, which would slow the velocity of water and allow sediment and debris to settle out of the water column and minimize the potential for downstream flooding, erosion/siltation, or exceedances of stormwater drainage system capacity. Pre-treatment and biofiltration prior to entering the storm sewer system would reduce adverse water quality impacts to groundwater and downstream water bodies. Furthermore, the NPDES Phase I permit would require the project to incorporate post-construction stormwater control measures, such as site design, source control, and stormwater treatment, to minimize the discharge of pollutants in stormwater runoff and non-stormwater discharges and to prevent increases in runoff flows. With implementation of BMPs pursuant to applicable regulations, project operation would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality. Impacts from operation would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation.

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the proposed project may impede sustainable groundwater management of the basin?

Impact HYD-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT SUBSTANTIALLY DECREASE GROUNDWATER SUPPLIES OR INTERFERE SUBSTANTIALLY WITH GROUNDWATER RECHARGE SUCH THAT THE PROPOSED PROJECT WOULD IMPEDE SUSTAINABLE GROUNDWATER MANAGEMENT OF THE BASIN. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site overlies the Riverside-Arlington Subbasin, which is designated as a very-low priority basin and is covered by the Groundwater Sustainability Plan for the Riverside-Arlington Groundwater Subbasin (WMWD 2022). As discussed in Section 4.19, *Utilities and Service Systems*, the proposed project is within the service area of RPU. The majority of RPU's water supply is sourced from local groundwater supplies that are actively managed in accordance with the 1969 Western-San Bernardino Judgment, described herein as the Adjudication Judgement. The Adjudication Judgement specifies sustainable water use rates for all approved producers, including RPU, and legally obligates specified water management agencies to replenish supplies extracted under overdraft conditions, as determined by thresholds including safe yield, aggregate use, and water levels in specified wells, depending upon the specific subbasin affected by such withdrawals.

Construction

During construction of the proposed project, temporary water supply would be required, primarily for dust suppression during grading and grubbing activities, as well as during equipment wheel washing and concrete mixing and casting. Pursuant to the requirements of the SCAQMD Rule 403, which is discussed in detail in Section 4.3, *Air Quality*, of the EIR, all surfaces disturbed within the project site during construction activities would be watered appropriately to reduce fugitive dust generation and the associated air quality impacts.

The proposed project itself would not directly extract groundwater supplies because water demand would be supplied by RPU. RPU, in turn, would extract groundwater in accordance with the Adjudication Judgement, thereby ensuring that the proposed project's water demand would not cause or exacerbate overdraft conditions affecting underlying groundwater supply basins or subbasins. The availability and reliability of water supplies in the project area for the proposed project are addressed in detail in Section 4.19, *Utilities and Service Systems*. As discussed therein, sufficient water supplies are available to meet the demand of the proposed project. RPU's continued implementation and compliance with the Adjudication Judgement, developed specifically to avoid future overdraft and maintain sustainable groundwater conditions, would ensure the proposed project would not substantially decrease groundwater supplies or impede sustainable groundwater management.

Operation

The proposed project would introduce new impervious surfaces to the project site through the development of the STEM Education Center and associated site improvements. As discussed under Impact HYD-1, development of impervious surfaces would occur in conjunction with site-specific BMPs, including the addition of appropriate drainage features to convey surface flows across and around impermeable areas to areas where flows may infiltrate to the subsurface. This would be achieved through implementation of LID methods and the incorporation of site design, source control, and stormwater treatment measures to minimize the discharge of pollutants in stormwater

runoff and non-stormwater discharges and to prevent increases in runoff flows in compliance with the NPDES Phase I permit. The project site is not designated as a groundwater recharge area, and the project site does not serve as a primary source of groundwater recharge in the Riverside-Arlington Subbasin (UCR 2021a). Consequently, the addition of impervious surfaces under the proposed project would not substantially interfere with groundwater recharge. Therefore, through compliance with the NPDES Phase I permit and implementation of LID methods and other stormwater control/treatment measures, the increase in impervious surfaces under the proposed project would not affect groundwater recharge such that the proposed project would impede sustainable groundwater management of the basin. Impacts related to sustainable groundwater management would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation.

Impacts would be less than significant without mitigation.

Threshold c.i.:	Would the proposed project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site?
Threshold c.ii.:	Would the proposed project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?
Threshold c.iii.:	Would the proposed project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?
Threshold c.iv.:	Would the proposed project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would impede or redirect flood flows?

The following discussion addresses potential project impacts related to thresholds c(i) through c(iv).

Impact HYD-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT SUBSTANTIALLY ALTER THE EXISTING DRAINAGE PATTERN OF THE SITE IN A MANNER WHICH WOULD RESULT IN SUBSTANTIAL EROSION, SILTATION, OR FLOODING; EXCEED THE CAPACITY OF STORMWATER DRAINAGE SYSTEMS; PROVIDE SUBSTANTIAL ADDITIONAL SOURCES OF POLLUTED RUNOFF; OR IMPEDE OR REDIRECT FLOOD FLOWS. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The proposed project would not alter the course of a stream or river. However, the proposed project would result in alterations to site-specific drainage patterns, which are the footprint of

travel of unabsorbed rainwater in a given area (generally moving from areas of higher elevation to lower elevation). The proposed project would introduce impervious surfaces to the project site through the development of the STEM Education Center and associated site improvements on a site that currently contains open recreational fields and introduce impervious surfaces to the T-Mobile Cell Tower Relocation Area through the development of a cell tower on a currently landscaped site. Impervious surfaces can increase surface runoff rates by inhibiting percolation of the water down into the soil. Stormwater runoff from these areas would be routed to existing stormwater drainage facilities in Blaine Street and/or Canyon Crest Drive.

Construction

Removal of vegetation, excavation, grading, stockpiling of soils may accelerate erosion and siltation, if disturbed soils are not secured. As discussed under Impact HYD-1, construction activities under the proposed project would be implemented in accordance with a site-specific SWPPP with BMPs that, when implemented, would avoid or minimize erosion, siltation, and flooding associated with drainage pattern alterations pursuant to the requirements of the CGP. Therefore, construction impacts related to the alteration of drainage patterns resulting in erosion, siltation, or flooding would be less than significant. Construction would be implemented in conjunction with site-specific drainage features that would convey stormwater to existing drainage facilities that have sufficient capacity to support the proposed project (UCR 2021a). Localized drainage pattern alterations would be addressed through site-specific drainage and control features in accordance with the WQMP and UCR's campus-wide stormwater permitting requirements. With continued implementation of regulatory requirements and UCR policies, which include the implementation of construction-period BMPs, construction impacts would not result in substantial erosion or siltation, flooding, substantial additional sources of polluted runoff, or the impediment or redirection of flood flows. These impacts would be **less than significant**.

Operation

Implementation of the proposed project would increase impervious surfaces on the location of the proposed STEM Education Center and T-Mobile Cell Tower Relocation Area as compared to existing conditions. As previously stated, any stormwater runoff from these areas would be routed to existing stormwater drainage facilities in Blaine Street and/or Canyon Crest Drive. On-site stormwater improvements would be implemented in compliance with the project-specific WQMP and other regulatory requirements. As discussed under Impact HYD-1, polluted runoff would not be substantial because the proposed project would be required to comply with the provisions of the NPDES Phase I permit, which would include hydromodification requirements and implementation of LID features and site design, source control, and stormwater treatment measures, such as permeable paving, vegetated swales, infiltration retention basins, or other features that would minimize stormwater runoff. In addition, UCR Planning, Design & Construction staff and California Division of the State Architect staff would review and approve project plans to ensure compliance with federal, State, and UCR regulatory requirements and to verify that stormwater management infrastructure is appropriately considered. The primary objective of UCR's post-construction requirements is to ensure projects reduce pollutant discharges to the maximum extent practicable and prevent stormwater discharges from causing or contributing to a violation of water quality standards. Furthermore, UCR has sufficient conveyance capacity to accommodate increased stormwater flows associated with buildout on the UCR campus due to improvements in existing arroyos and detention basins, which currently have the capacity to convey and contain a 100-year flood event (UCR 2021a). The project site is located outside of the 100-year flood plain and would

not impede or redirect flood flows in a 100-year flood hazard area (UCR 2021a). As such, the proposed project would not substantially alter the existing drainage pattern such that substantial erosion, or siltation would occur; flooding would result; the capacity of existing stormwater drainage systems would be exceeded; substantial polluted runoff would be generated; or flood flows would be impeded or redirected. These impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation.

Impacts would be less than significant without mitigation.

Threshold d: In flood hazard, tsunami, or seiche zones, would the proposed project risk release of pollutants due to project inundation?

Impact HYD-4 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RISK RELEASE OF POLLUTANTS DUE TO PROJECT INUNDATION IN FLOOD HAZARD, TSUNAMI, OR SEICHE ZONES. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As discussed in Section 4.10.2, *Existing Conditions*, the project site is within an area of minimal flood hazard (FEMA 2008). As such, the project site would not be within a flood hazard zone. The project site is approximately 40 miles inland from the California coastline and thus would not be subject to a tsunami. No lakes or other water bodies are on or within the immediate vicinity of the project site that could subject the proposed project to seiche. Although the Gage Canal runs adjacent to the location of the proposed STEM Education Center and T-Mobile Cell Tower Relocation Area as well as underneath a portion of the electrical feeder line upgrade alignment, the Gage Canal is underground, and the proposed project would not alter the Gage Canal such that flood risk associated with the Gage Canal would substantially increase. Therefore, the proposed project would not risk release of pollutants due to project inundation in flood hazard, tsunami, or seiche zones, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation.

Impacts would be less than significant without mitigation.

Threshold e: Would the proposed project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Impact HYD-5 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CONFLICT WITH OR OBSTRUCT IMPLEMENTATION OF A WATER QUALITY CONTROL PLAN OR SUSTAINABLE GROUNDWATER MANAGEMENT PLAN. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The Basin Plan, developed by the SARWQCB, designated beneficial uses for surface waters in the Santa Ana Region and associated water quality objectives to fulfil such uses. As discussed under

Impact HYD-1, construction and operation of the proposed project would be conducted in compliance with applicable regulatory requirements related to stormwater runoff to minimize the potential for pollutants to degrade water quality. The proposed project would comply with the NPDES CGP, NPDES Phase I Permit, and project-specific WQMP. Together, these regulations would require implementation of an SWPPP during construction and implementation of long-term BMPs that would be implemented throughout operation. Furthermore, the proposed project would adhere to UCR requirements to implement a post-construction site stormwater runoff control program. In light of regulatory compliance, the proposed project would not impair water quality such that it would conflict with or obstruct implementation of the Basin Plan. Therefore, this impact would be **less than significant**.

As discussed under Impact HYD-2, the proposed project would not adversely impact groundwater supplies or supply reliability, and the proposed project would not interfere with the management of the local groundwater basins in accordance with the 1969 Western-San Bernardino Judgment. In addition, RPU has stated adequate water supplies are anticipated to be available through the year 2045 (RPU 2021a). Existing regulatory measures prevent the overdraft of groundwater subbasins that RPU would use to supply the water demand of the proposed project. Thus, the proposed project would not conflict with or obstruct a sustainable groundwater management plan. This impact would be **less than significant**.

4.10.5 Cumulative Impacts

The cumulative context for hydrology and water quality is the South Coast Hydrologic Region. Development of past, current, and future projects continue to result in changes to water quality, water availability, and drainage patterns. The projects listed in Table 4-1 and several regional plans further described in Section 4, *Environmental Impact Analysis*, represent development and redevelopment that has the potential to alter water quality and drainage patterns, and increase water demand.

Some types of impacts to hydrology and water quality may be additive in nature, and thus cumulative; these include the violation of water quality standards, interference with groundwater recharge, and altered drainage patterns that result in increased erosion, increased runoff, increased non-point source pollution, and increased flooding. Cumulative development would increase erosion and sedimentation resulting from grading and construction as well as change in drainage patterns, which could degrade surface and ground water quality. Cumulative development relying on groundwater as a source of water supply could also combine with increased development within the City to decrease available water supplies. Development of individual projects in the cumulative impact analysis area would be required to comply with applicable water quality regulations. Compliance with these existing requirements would require implementation of BMPs to reduce impacts associated with stormwater and pollutant discharge during construction and operation of projects and reduce adverse changes to hydrology water quality throughout the South Coast Hydrologic Region. Therefore, cumulative impacts related to water quality and drainage patterns would be **less than significant**.

Cumulative development overlying the Riverside-Arlington Subbasin and other groundwater subbasins would increase the amount of impervious surfaces and could combine with the effects of existing development to potentially reduce groundwater recharge to the basin. Therefore, cumulative impacts to groundwater recharge would be significant. However, as discussed under Impact HYD-2, the project site is not designated as a groundwater recharge area, and the project site does not serve as a primary source of groundwater recharge in the Riverside-Arlington

Subbasin. Furthermore, the proposed project would include drainage features to convey surface flows to permeable surfaces and implementation of LID methods and site design, source control, and stormwater treatment measures to minimize the discharge of pollutants in stormwater runoff and non-stormwater discharges and to prevent increases in runoff flows for compliance with the NPDES Phase I Permit. These project-specific features would further reduce interference with groundwater recharge. Therefore, the project's cumulative impacts to groundwater recharge would **not be cumulatively considerable (less than significant)**.

Development of individual projects throughout the Riverside-Arlington Subbasin would increase the demand for water from the RPU, which obtains water supply primarily through local groundwater sources, including the Riverside-Arlington Subbasin. Although cumulative development would increase demand for groundwater, the agencies managing groundwater, including RPU, are responsible for ensuring the Riverside-Arlington Subbasin is sustainably managed. Groundwater management takes into consideration increased demand from anticipated development to ensure groundwater is not overdrafted. Therefore, cumulative impacts related to groundwater supplies would be **less than significant**.

Cumulative development in the region could occur within flood and seiche hazard zones and risk release of pollutants due to inundation. Development such as industrial parks, wastewater treatment plants, hazardous materials storage, or other infrastructure may pose a risk to the release of pollutants as a result of inundation. However, the potential for a development project to risk release of pollutants due to inundation is site-specific and dependent on project-specific design features. Cumulative development constructed within floodplains would be subject to the regulatory requirements of FEMA and local agencies, which would ensure development in a floodplain is designed and constructed such that individual development projects are constructed above base flood elevations and the potential for inundation and pollutant release is minimized. Furthermore, cumulative development would be subject to stormwater permit requirements which would require project-specific stormwater drainage to have capacity to accommodate peak flood flows. Adherence to State and local regulations would reduce the potential for cumulative development projects to result in inundation or risk pollutant release during inundation. Therefore, potential cumulative impacts associated with the risk of pollutant release due to inundation would be **less than significant**.

The proposed project and cumulative projects would be subject to the same water quality regulations and requirements, including the standards of the NPDES Phase I permit and the reporting provisions of the Phase II MS4 Small Statewide Stormwater Permit, to which the UCR campus is a permittee. Similarly, the proposed project and cumulative projects would be subject to the same groundwater management standards and regulations, including the 1969 Western-San Bernardino Adjudication Judgment, which provides for groundwater supply sustainability despite overdraft conditions. This is accomplished through conjunctive use management efforts such as the replenishment of any groundwater extracted under overdraft conditions with imported surface water supplies to avoid adverse effects associated with overdraft. Therefore, impacts of the proposed project would have minimal potential to combine with similar impacts of other projects, and potential cumulative impacts related to water quality control plans and sustainable groundwater management plans would be **less than significant**.

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4.11 Land Use and Planning

4.11.1 Introduction

This section describes existing land uses and applicable land use regulations at and around the project site and addresses the potential for implementation of the proposed project to result in environmental impacts related to land use and planning.

4.11.2 Existing Conditions

Regional Setting

The City of Riverside's (City's) existing land use form is shaped by its topography, natural resources, and circulation patterns. Similar to most cities, the City contains a mix of land uses. Urban land uses are concentrated in the north of the City's Planning Area (including City limits and its Sphere of Influence), with most of the City's moderate-density residential development occurring north and west of State Route (SR) 91. Approximately 36 percent of the City's Planning Area is developed with residential uses of differing densities, with another 36 percent constituting vacant land. Commercial and office use comprises four percent, industrial uses comprise four percent, and public facilities (including educational, governmental, infrastructure, and airport) compose nine percent of the City's Planning Area. Open space, public/private recreational use, and agricultural lands constitute the remaining 11 percent of the City's Planning Area (City of Riverside 2007).

Campus and Project Site Setting

The UCR campus is located in the southeastern portion of the City, bisected by the Interstate 215/State Route 60 (I-215/SR 60) freeways. The UCR campus is developed with academic, research, agricultural, recreational, athletic, maintenance, housing facilities, campus support facilities, and designated open space areas. The campus is adjacent to and surrounded by single- and multi-family neighborhoods, office/commercial retail development, government facilities, and open space areas (UCR 2021).

The project site is comprised of approximately seven acres located within an urbanized area of the City generally at the southwest corner of the intersection at Blaine Street and Canyon Crest Drive. The utilities improvement alignment is located within the public rights-of-way of Canyon Crest Drive and Blaine Street. The project site (with the exception of the area within public rights-of-way and the City-owned parcel) is located within UCR's 2021 Long Range Development Plan (LRDP) area, a long-term planning document prepared by UCR to guide campus development through 2035/2036. The proposed location of the STEM Education Center on UCR campus has an LRDP land use designation of Canyon Crest Gateway, the T-Mobile Cell Tower Relocation Area, located within a portion of the developed UCR Baseball Complex, and the associated improvements area have an LRDP land use designation of Recreation & Athletics (UCR 2021).

The project site is currently developed with an open recreational field with two baseball diamonds, two cell towers, surface parking, various landscaping including trees, and public roadways. Existing surrounding uses to the project site include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Existing uses on Canyon Crest Drive

include the mostly undeveloped UCR North District Development area located to the east;¹ Falkirk Apartments for student housing and a portion of the underground Gage Canal to the south; REACH Leadership STEAM Academy, a church, and a portion of the underground Gage Canal to the southwest; and the UCR Baseball Complex and a portion of the underground Gage Canal to the west. Refer to Section 2.1.3 and Figure 2-3 in Section 2, *Project Description*, of the EIR for further discussion of the existing surrounding uses.

The proposed location of the STEM Education Center, T-Mobile Cell Tower Relocation Area, and associated improvements area are designated by the City's General Plan as Public Facilities/Institutions (PF), which permits educational facilities, libraries, governmental uses, utilities, and other community supportive functions (City of Riverside 2019). The location of the proposed STEM Education Center is zoned Public Facilities (PF) (Assessor's Parcel Number 250-220-008) and Multi-family Residential (R-3-1500) (Assessor's Parcel Number 250-220-003), and the T-Mobile Cell Tower Relocation Area and associated improvements area are zoned Public Facilities (PF). The utilities improvement alignment is within public rights-of-way, which do not have associated General Plan land use designations or zoning.

4.11.3 Regulatory Framework

Federal

There are no federal laws related to land use and planning that are applicable to the proposed project.

State

The Sustainable Communities and Climate Protection Act of 2008 (SB 375, Steinberg)

Senate Bill (SB) 375 focuses on aligning transportation, housing, and other land uses to achieve regional greenhouse gas emission reduction targets established under the California Global Warming Solutions Act, also known as Assembly Bill 32. SB 375 requires Metropolitan Planning Organizations to develop a Sustainable Communities Strategy (SCS) as part of the Regional Transportation Plan (RTP), with the purpose of identifying policies and strategies to reduce per capita passenger vehicle-generated greenhouse gas emissions. As set forth in SB 375, the SCS must: (1) identify the general location of land uses, residential densities, and building intensities within the region; (2) identify areas within the region sufficient to house all the population of the region, including all economic segments of the population, over the course of the planning period; (3) identify areas within the region sufficient to house an eight-year projection of the regional housing need; (4) identify a transportation network to service the regional transportation needs; (5) gather and consider the best practically available scientific information regarding resource areas and farmland in the region; (6) consider the state housing goals; (7) establish the land use development pattern for the region that, when integrated with the transportation network and other transportation measures and policies, will reduce greenhouse gas emissions from automobiles and light-duty trucks to achieve greenhouse gas emission reduction targets set by the California Air

¹ The UCR North District Development (NDD) Phase 1 located at the southeastern portion of the NDD area, which includes approximately 1,500 student beds, was completed in Summer 2021. The NDD Phase 2 located at the western and a portion of the central NDD area includes approximately 1,600 student beds, ancillary amenity spaces, a Central Park, surface parking, recreational fields, and associated landscape and hardscape improvements; and is currently under construction. Construction of the future phases of the North District area (e.g., residence hall beds, apartment beds, dining facilities, recreation) will be determined at a later date pending demand and funding.

Resources Board, if there is a feasible way to do so; and (8) comply with air quality requirements established under the federal Clean Air Act.

University of California, Riverside

2021 Long Range Development Plan

The UCR 2021 LRDP is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP also includes objectives and policies relevant to land use and planning that are applicable to the proposed project, which are summarized in Table 4.11-1.

Table 4.11-1 UCR 2021 LRDP Objectives and Policies Related to Land Use and Planning

Objective	Policy
Land Use Planning	
Serve as good stewards of limited campus lands and natural resources as UCR continues to grow and develop toward its enrollment goals.	Promote increased densities on East Campus through increased site coverage and heights of future projects flanking northern and western gateways and campus loop road.
Retain existing land-based research operations on West Campus, while balancing the need for innovative partnerships and initiatives.	Require increased development density on East Campus.
Generally locate higher density future growth adjacent to and outside of the campus loop road.	Allow increased heights and increased density on underutilized lands such as surface parking lots and infill areas to meet future needs.
Enhance Canyon Crest Drive as a new campus “Main Street” and northern gateway.	Ensure that all proposed buildings include a mix of active uses that have a street interface.
Enhance campus edges to promote a welcoming impression to visitors and visually communicate the transition to campus-owned land areas.	Locate key campus community-related facilities to engage campus edges and enhanced landscape strategies.
Develop and maintain current principles and standards on the design of campus buildings and landscapes.	Provide project designers with a current version of the UCR <i>Physical Design Framework</i> and <i>Campus Construction and Design Standards</i> .
Open Space	
Balance open spaces with the built environment throughout all areas of campus and provide opportunities for indoor-outdoor relationships between campus facilities and the landscape.	Encourage new facility construction and renovations to activate first floors to allow for increased access and integration with the natural campus environment.

Source: UCR 2021

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to

compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

Connect SoCal (2020-2045 Regional Transportation Plan/Sustainable Communities Strategy)

On September 3, 2020, the Southern California Association of Governments (SCAG) Regional Council formally adopted the 2020-2045 RTP/SCS (titled Connect SoCal). The 2020-2045 RTP/SCS builds upon the progress made through implementation of the 2016-2040 RTP/SCS and includes ten goals focused on promoting economic prosperity, improving mobility, protecting the environment, and supporting healthy/complete communities. The SCS implementation strategies include focusing growth near destinations and mobility options, promoting diverse housing choices, leveraging technology innovations, and supporting implementation of sustainability policies. The SCS establishes a land use vision of center focused placemaking, concentrating growth in and near Priority Growth Areas, transferring of development rights, urban greening, creating greenbelts and community separators, and implementing regional advance mitigation (SCAG 2020).

City of Riverside General Plan

LAND USE AND URBAN DESIGN ELEMENT

The City's General Plan is a long-range plan to guide growth and decision-making within the City. The General Plan consists of 12 elements, each with objectives and policies that reflect the vision and goals of the City. Of the elements, the General Plan Land Use and Urban Design Element is most applicable to the analysis in this section. The General Plan Land Use and Urban Design Element identifies existing and planned land uses and provides goals and policies to guide the future pattern of land uses and development in Riverside. The General Plan Land Use and Urban Design Element designates the land use of the proposed location of the STEM Education Center, T-Mobile Cell Tower Relocation Area, and associated improvements area as Public Facilities/Institutions (PF) (City of Riverside 2019). The utilities improvement alignment is within public rights-of-way, which do not have associated General Plan land use designations.

City of Riverside Municipal Code

The City's Municipal Code regulates development in the City through Title 19, Zoning Code. Riverside Municipal Code Chapter 19.020 outlines the purpose of the Zoning Code; Title 19 - Zoning also includes classifying and regulating land uses in accordance with the General Plan; regulating building heights, yards and open space requirements; regulating the density of development; and facilitating adequate community utilities and public facilities. The location of the proposed STEM Education Center is zoned Public Facilities (PF) (Assessor's Parcel Number 250-220-008) and Multi-family Residential (R-3-1500) (Assessor's Parcel Number 250-220-003), and the T-Mobile Cell Tower Relocation Area and associated improvements area are zoned Public Facilities (PF). The utilities improvement alignment is within public rights-of-way, which do not have associated zoning.

TITLE 17 - GRADING CODE

Title 17 of the City's Municipal Code sets forth regulations for grading projects. Compliance with these regulations helps minimize erosion, dust, water runoff, effects to natural landforms, and construction equipment emissions. The proposed project would be required to meet the applicable provisions of Title 17.

Riverside Unified School District

The Riverside Unified School District (RUSD) Planning and Development Department is charged with the critical task of evaluating the need for new and existing schools. This complex task is based on an ongoing analysis of RUSD's demographics, including projecting growth in the population of school age children from kindergarten through high school.

The RUSD Planning and Development Department's primary responsibilities include, but are not limited to:

- Development and updating of the facilities master plan
- Design and planning for construction and modernization of schools
- Acquisition of sites for new schools
- Monitoring new development
- Review and evaluation of attendance boundaries
- Assessing site enrollment capacity and site utilization

4.11.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Land Use and Planning to assess the proposed project.

Would the proposed project:

- a. Physically divide an established community?
- b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Methodology

The analysis in this section focuses on evaluating the potential for the proposed project to physically divide an established community or cause a significant environmental impact due to a conflict with applicable land use plans, policies, or regulations. To inform this analysis, regional and locally adopted land use plans and regulations, including Connect SoCal (SCAG's 2020-2045 RTP/SCS) and the UCR 2021 LRDP, as well as aerial imagery were reviewed.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project physically divide an established community?
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Impact LU-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT PHYSICALLY DIVIDE AN ESTABLISHED COMMUNITY. NO IMPACT WOULD OCCUR, AND NO MITIGATION MEASURES ARE REQUIRED.

The proposed STEM Education Center is within the boundaries of the RUSD and would be located on an existing open recreational field on the UCR East Campus. The proposed T-Mobile Cell Tower Relocation Area is located within a landscaped area behind the outfield of the UCR Baseball Complex; the associated improvements area is located on top of the underground Gage Canal; and the utilities improvement alignment is proposed within public rights-of-way. Construction of the proposed project would occur within these previously-developed areas and would maintain existing

sidewalks and public roadways adjacent to the site in their current configurations. Therefore, the proposed project would not physically divide an established community, and **no impact** would occur.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

No impact would occur without mitigation.

Threshold b: Would the proposed project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Impact LU-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CAUSE A SIGNIFICANT ENVIRONMENTAL IMPACT DUE TO A CONFLICT WITH ANY LAND USE PLAN, POLICY, OR REGULATION ADOPTED FOR THE PURPOSE OF AVOIDING OR MITIGATING AN ENVIRONMENTAL EFFECT. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Several regionally and locally adopted land use plans, policies, and regulations apply to the project site. These include the Connect SoCal (SCAG's 2020-2045 RTP/SCS) and the UCR 2021 LRDP as well as the South Coast Air Quality Management District's 2022 Air Quality Management Plan and the Riverside County (County) Multiple Species Habitat Conservation Plan (MSHCP). Consistency of the proposed project with the 2022 Air Quality Management Plan and with the County MSHCP is discussed in Section 4.3, *Air Quality*, and Section 4.4, *Biological Resources*, of this EIR, respectively.

Connect SoCal (2020-2045 Regional Transportation Plan/Sustainable Communities Strategy)

SCAG's Connect SoCal is a long-range land use and transportation plan for the Southern California region, including Riverside County. The RTP/SCS includes several core visions with respective strategies that are expected to result in significant benefits to the region, not only with respect to transportation and mobility, but also economic activity, safety, environmental health, and social equity. The proposed project's consistency with the greenhouse gas reduction strategies of this plan is described in Section 4.8, *Greenhouse Gas Emissions*, of this EIR. Table 4.11-2 details the proposed project's consistency with the strategies of Connect SoCal related to land use. The proposed project's consistency with the greenhouse gas reduction strategies of this plan is described in Section 4.8, *Greenhouse Gas Emissions*, of this EIR.

Table 4.11-2 Project Consistency with Connect SoCal

Strategy	Project Consistency
Prioritize infill and redevelopment of underutilized land to accommodate new growth, increase amenities and connectivity in existing neighborhoods.	Consistent. The proposed project would consist of construction of a STEM Education Center, associated outdoor educational facilities, and landscaping on an existing open recreational field within the UCR campus. The existing T-Mobile Cell Tower is proposed to be re-located to a portion of the UCR Baseball Complex within the UCR campus. The project site is adjacent to existing residential neighborhoods, and the proposed project would include pedestrian and roadway circulation improvements that would enhance connectivity. Therefore, the proposed project would prioritize infill and redevelopment of underutilized land.
Promote more resource efficient development focused on conservation, recycling, and reclamation.	Consistent. As described in Section 2, <i>Project Description</i> , the proposed project would meet minimum Leadership in Energy and Environmental Design (LEED) Silver certification, which would be achieved by using less water and energy, reducing greenhouse gas emissions, and increasing construction waste diversion compared to a non-LEED certified building. Features such as solar panels and water conservation elements would be incorporated into the project design to reduce the building’s energy utilization and achieve LEED certification. Therefore, the proposed project would promote resource-efficient development focused on conservation, recycling, and reclamation.

Source: SCAG 2020

UCR 2021 Long Range Development Plan

The UCR 2021 LRDP aims to increase the density and intensity of future development on East Campus, in which the proposed location of the STEM Education Center is located. The proposed project’s consistency with specific, relevant 2021 LRDP objectives and policies that avoid or mitigate an environmental effect is detailed in Table 4.11-3.

Table 4.11-3 Project Consistency with the UCR 2021 LRDP

UCR 2021 LRDP Objectives and Policies	Project Consistency
Land Use Planning	
Objective: Serve as good stewards of limited campus lands and natural resources as UCR continues to grow and develop toward its enrollment goals. <i>Policy: Promote increased densities on East Campus through increased site coverage and heights of future projects flanking northern and western gateways and campus loop road.</i>	Consistent. The proposed project would involve redevelopment of an existing recreational field and surface parking lot with an approximately 50-foot-tall STEM Education Center and associated site improvements. The proposed project would increase the density of development on East Campus.
Objective: Retain existing land-based research operations on West Campus, while balancing the need for innovative partnerships and initiatives. <i>Policy: Require increased development density on East Campus.</i>	Consistent. The proposed project would increase the density of development on East Campus and would not impact land based research operations on West Campus.
Objective: Generally locate higher density future growth adjacent to and outside of the campus loop road. <i>Policy: Allow increased heights and increased density on underutilized lands such as surface parking lots and infill areas to meet future needs.</i>	Consistent. The proposed project would involve redevelopment of an existing recreational field and surface parking lot with an approximately 50-foot tall STEM Education Center and associated site improvements.

UCR 2021 LRDP Objectives and Policies	Project Consistency
<p>Objective: Enhance Canyon Crest Drive as a new campus “Main Street” and northern gateway. <i>Policy: Ensure that all proposed buildings include a mix of active uses that have a street interface.</i></p>	<p>Consistent. The proposed project would be located along the Canyon Crest Gateway corridor and would include planting of trees, which would provide shade and seasonal color. Therefore, the proposed project would help enhance Canyon Crest Drive as a new campus “Main Street” and northern gateway and include a mix of active uses along its street interfaces.</p>
<p>Objective: Enhance campus edges to promote a welcoming impression to visitors and visually communicate the transition to campus-owned land areas. <i>Policy: Locate key campus community-related facilities to engage campus edges and enhanced landscape strategies.</i></p>	<p>Consistent. The project site is located on a campus edge, and the proposed project would include planting of a variety of shade trees that provide screening and seasonal color. Landscaping and building materials would integrate the proposed project into the design of the UCR East Campus, which would visually communicate the transition to campus-owned land areas.</p>
<p>Objective: Develop and maintain current principles and standards on the design of campus buildings and landscapes. <i>Policy: Provide project designers with a current version of the UCR Physical Design Framework and Campus Construction and Design Standards.</i></p>	<p>Consistent. The proposed project would be constructed in accordance with UCR’s design review process.</p>
Open Space	
<p>Objective: Balance open spaces with the built environment throughout all areas of campus and provide opportunities for indoor-outdoor relationships between campus facilities and the landscape. <i>Policy: Encourage new facility construction and renovations to activate first floors to allow for increased access and integration with the natural campus environment.</i></p>	<p>Consistent. The proposed project would include a pollinator garden, garden beds, teaching orchard, and outdoor seating as outdoor use areas, which would provide opportunities for indoor-outdoor relationships between the STEM Education Center and the landscape.</p>
<p>Source: UCR 2021</p>	

City of Riverside General Plan

The City’s General Plan Land Use and Urban Design Element identifies goals, objectives, and policies for the location and intensity of growth in the City. UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

Applicable General Plan policies and objectives related to aesthetics, biological resources, GHG emissions, noise, transportation, and wildfire are addressed in their respective sections of this EIR. The proposed project’s consistency with the remaining specific, relevant General Plan policies that avoid or mitigate an environmental effect is detailed in Table 4.11-4. In addition, at its February 21, 2023 meeting, the Riverside City Planning Commission determined the proposed project is consistent with the City’s General Plan for the following reasons (City of Riverside 2023a and 2023b):

- The PF land use designation, which is applied to the entirety of the project site with the exception of areas within the public rights-of-way, provides for the development of schools, hospitals, libraries, utilities, the municipal airport, institutional offices (e.g., religious, educational, social or similar organizations), and government institutions.
- The PF zoning, which is applied to the majority of the project site, provides for the development of institutional offices, government institutions and other public facilities.
- The R-3-1500 zoning, which is applied to Assessor’s Parcel Number 250-220-003, is consistent with the PF General Plan designation pursuant to the General Plan Consistency Criteria (Table LU-7, Land Use and Urban Design Element of the City’s General Plan).
- The proposed project meets Objective ED-1, Policy ED-1.1, Objective ED-2, and Policy ED-2.4 of the City’s General Plan because the Education and Land Use and Urban Design Elements of the City’s General Plan “promote joint use of schools and community facilities to provide a higher quality of life to Riverside residents” and RUSD school sites “play an important role as they are often joint-use facilities, providing both education, community meeting space and recreational facilities near the residential populations they serve.”

Table 4.11-4 Project Consistency with the Land Use Policies of the City’s General Plan

City of Riverside General Plan Policies and Objectives	Project Consistency
Land Use Element	
Policy LU-8.1: Ensure well-planned infill development Citywide, allow for increased density in selected areas along established transportation corridors.	Consistent. The proposed project would include construction of a STEM Education Center, associated outdoor educational facilities, and landscaping on an existing outdoor recreational field within the UCR campus. The project site is in close proximity to existing residential neighborhoods. The project’s environmental impacts have been evaluated and mitigated, as necessary, throughout this EIR. Therefore, the proposed project would constitute well-planned infill development.
Policy LU-18.1: Develop streetscape, bicycle, and pedestrian improvements that will solidify Canyon Crest Drive’s role as a parkway.	Consistent. The proposed project would include plantings of velvet ash trees along Canyon Crest Drive, which would provide shade and seasonal color. The proposed project would not alter the existing bicycle and pedestrian facilities along the Canyon Crest Drive frontage. Therefore, the proposed project would contribute to the solidification of Canyon Crest Drive as a parkway.
Education Element	
Objective ED-1: Accommodate the growth of all educational facilities.	Consistent. The proposed project involves construction of a STEM school that would serve existing students in the RUSD.
Policy ED-1.1: Provide an adequate level of infrastructure and services to accommodate campus growth at all educational levels.	Consistent. The proposed project is right-sized to meet the expected student population based on current attendance at RUSD schools. The proposed project would expand access to STEM education for high school students in the RUSD district.
Circulation and Community Mobility Element	
Policy CCM-8.1: Continue to regularly meet with local school districts to identify safe routes to all schools, enabling better school access by cyclists and pedestrians. Support the establishment of safe drop-off and pick-up zones around schools during the morning and afternoon peak hours.	Consistent. The proposed project would include bussing with a designated on-site bus lane for student drop-off/pick-up and a parent lane for student drop-off/pick-up as well as approximately 153 parking spaces. Therefore, the project would establish a safe drop-off/pick-up zone for the project.

City of Riverside General Plan Policies and Objectives	Project Consistency
Policy CCM-8.2: Promote walking and biking as a safe mode of travel for children attending local schools.	Consistent. The proposed project would include reconstruction of existing pedestrian and bicycle infrastructure at access points. The proposed project also would not encroach on or interfere with the City’s planned multi-purpose recreational trails in the project site vicinity, which would facilitate walking and biking to the proposed location of the STEM Education Center by students once complete.

Source: City of Riverside 2019

Riverside Municipal Code

UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR that are in furtherance of the University’s educational purposes. Although UCR is not bound by the Riverside Municipal Code in its planning efforts, applicable standards relevant to the proposed project have been included to demonstrate overall consistency, for informational purposes.

The project site is zoned PF (Assessor’s Parcel Number 250-220-008, 250-220-006, and 250-220-002) and R-3-1500 (Assessor’s Parcel Number 250-220-003). The proposed school use is a permitted use within the PF zone pursuant to Riverside Municipal Code Section 19.140.020. In addition, the California Department of Education considers R-3-zoning to be acceptable for school uses. RUSD obtained a letter of conformance for the zone from the City’s Planning Commission on February 21, 2023 (City of Riverside 2023a) and final approval from City Council as part of the California Department of Education’s site certification process. With City Council approval of the letter of conformance, the proposed project would be consistent with the requirements of the Riverside Municipal Code.

Summary

As discussed above, the proposed project would be consistent with SCAG’s Connect SoCal, the UCR 2021 LRDP, and the City’s General Plan and Municipal Code. Therefore, the proposed project would not cause a significant environmental impact due to a conflict with an applicable land use plan, policy, or regulation, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.11.5 Cumulative Impacts

Planned growth within the UCR campus and in the City and County surrounding UCR, in combination with the proposed project, may have significant cumulative land use impacts related to either physical division of communities or conflicts with land use goals, policies, and plans adopted for the purpose of avoiding or mitigating environment effects. However, the cities and communities surrounding UCR are subject to applicable City or County general plans and zoning standards. Additionally, the objectives, policies, and standards in the 2021 LRDP apply to surrounding campus development in the same manner as they apply to the proposed project, thereby avoiding potential for cumulative conflicts between land use and planning for the City, County, and UCR. Therefore, cumulative impacts related to physical division of an established community or environmental impacts due to conflicts with land use plans, policies, or regulations adopted for the purpose of avoiding or mitigating an environmental effect would be **less than significant**.

4.11.6 References

- Riverside, City of. 2007. Final Program Environmental Impact Report for the City of Riverside General Plan and Supporting Documents, City of Riverside, Riverside County, California – Section 5.9 Land Use and Planning. Riverside, CA.
https://riversideca.gov/cedd/sites/riversideca.gov.chedd/files/pdf/planning/general-plan/vol2/5-9_Land_Use_Planning.pdf (accessed March 2022).
- _____. 2019. Riverside General Plan 2025, Land Use and Urban Design Element. Riverside, CA. Amended August 2019.
https://riversideca.gov/cedd/sites/riversideca.gov.chedd/files/pdf/planning/general-plan/04_Land_Use_and_Urban_Design_Element_with%20maps%20COMPLETE%20AUGUST%202019.pdf (accessed March 2022).
- _____. 2023a. Planning Case PR-2023-001479 – City Zoning and General Plan Conformity – Southwest corner of Blaine Street and Canyon Crest Drive, Ward 1. February 21, 2023.
- _____. 2023b. Staff Report for Case Number PR-2023-001479 (General Plan Consistency). February 16, 2023.
- Southern California Association of Governments (SCAG). 2020. Connect SoCal: The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments. September 3, 2020. <https://scag.ca.gov/read-plan-adopted-final-plan> (accessed July 2022).
- University of California, Riverside (UCR). 2021. 2021 Long Range Development Plan. November 2021. https://lrdp.ucr.edu/sites/default/files/2021-11/2021lrdp-final_0.pdf (accessed June 2022).

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4.12 Mineral Resources

4.12.1 Introduction

This section describes the level and type of existing mineral resources at and around the project site and addresses the potential for implementation of the proposed project to result in impacts to mineral resources.

4.12.2 Existing Conditions

Regional Setting

Riverside County (County) contains deposits of feldspar, silica, limestone, and other mineral products. However, mining operations have not been active within the City of Riverside (City) or much of the County for decades. According to the City's General Plan, the quarrying of granitic rock was once a significant industry in Riverside, but these operations have not been active for decades (City of Riverside 2012).

Campus and Project Site Setting

The UCR campus is located on lands classified as Mineral Resource Zone 3 (MRZ-3), which are areas that contain known or inferred mineral occurrences of undetermined mineral resource significance (City of Riverside 2012). There are no known mineral resources or operational mines located on the UCR campus, including the project site.

4.12.3 Regulatory Framework

Federal

There are no federal regulations pertaining to the protection of mineral resources that are applicable to the proposed project.

State

Surface Mining and Reclamation Act

The California Surface Mining and Reclamation Act of 1975 (SMARA) requires all cities incorporate mapped mineral resources designations approved by the State Mining and Geology Board, pursuant to California Public Resources Code Sections 2710 et seq., into their general plans. SMARA was enacted to limit new development in areas with significant mineral deposits. The State Geologist classifies land in California based on the availability of mineral resources. Because available aggregate construction material is limited, five designations have been established for the classification of sand, gravel, and crushed rock resources:

- **Scientific Resource Zone (SZ).** Areas containing unique or rare occurrences of rocks, minerals, or fossils that are of outstanding scientific significance.
- **Mineral Resource Zone 1 (MRZ-1).** Areas for which adequate information indicates no significant mineral deposits are present or likely to be present.

- **Mineral Resource Zone 2 (MRZ-2).** Areas for which adequate information indicates significant mineral deposits are present or there is a high likelihood of their presence such that development should be controlled.
- **Mineral Resource Zone 3 (MRZ-3).** Areas for which the significance of mineral deposits cannot be determined from the available data.
- **Mineral Resource Zone 4 (MRZ-4).** Areas with insufficient data to assign any other MRZ designation.

University of California, Riverside

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP does not allow for mining on the campus and does not contain any policies or objectives pertaining to mineral resources.

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

4.12.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Mineral Resources to assess the proposed project.

Would the proposed project:

- a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?
- b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

Methodology

To evaluate the potential impacts of the proposed project on mineral resources, the type and degree of effects of the proposed project to mineral resources were analyzed in relation to the existence and proximity of mineral resources and extraction activities and any policies and programs in the 2021 LRDP related to the protection of mineral resources.

Project Impacts and Mitigation Measures

- Threshold a:** Would the proposed project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?
- Threshold b:** Would the proposed project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

The following discussion addresses potential proposed project impacts related to thresholds (a) and (b).

Impact MIN-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN THE LOSS OF AVAILABILITY OF A KNOWN MINERAL RESOURCE THAT WOULD BE OF VALUE TO THE REGION AND RESIDENTS OF THE STATE OR IN THE LOSS OF AVAILABILITY OF A LOCALLY IMPORTANT MINERAL RESOURCE RECOVERY SITE. THEREFORE, THE PROPOSED PROJECT WOULD HAVE NO IMPACT ON MINERAL RESOURCES, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site, as well as the broader UCR campus, is located on lands classified as MRZ-3, which are areas of undetermined mineral resource significance (City of Riverside 2012). No known mineral resources of local or State importance are present on the project site, and no mineral extraction activities are currently occurring in or around the project site vicinity. The proposed project does not entail mineral resource extraction activities or mining uses. In addition, the immediate vicinity of the project site is largely developed and urbanized such that mining uses would be incompatible with the project site and vicinity. Therefore, the proposed project would not result in the loss of availability of a known mineral resource and would not result in the loss of availability of a locally important mineral resource recovery site. **No impact** would occur.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

No impacts would occur without mitigation.

4.12.5 Cumulative Impacts

The cumulative setting for mineral resources includes the geographic area of Riverside County and San Bernardino County. These two counties were selected because regional population growth and development in both counties increases the demands for aggregate and other mineral materials, such as sand and gravel. Similarly, development pressures in areas of both counties where these materials are known or expected to occur would result in the loss of availability of these mineral resources.

However, pursuant to CEQA Guidelines Section 15130(a)(1), an EIR should not discuss cumulative impacts which do not result in part from the proposed project. As described under Impact MIN-1, the proposed project would result in no impacts to mineral resources and would therefore have **no cumulative impacts** to mineral resources.

4.12.6 References

Riverside, City of. 2012. General Plan 2025, Open Space and Conservation Element. Riverside, CA. Amended November 2012.

https://riversideca.gov/cedd/sites/riversideca.gov.chedd/files/pdf/planning/general-plan/12_Open_Space_and_Conservation_Element.pdf (accessed April 2022).

4.13 Noise

4.13.1 Introduction

This section describes the existing noise and vibration conditions at and near the project site and evaluates whether implementation of the proposed project would result in any temporary or long-term noise and vibration impacts. The analysis in this section is based in part on sound level measurements as well as modeling completed using the Roadway Construction Noise Model (RCNM) and other tools. Sound level measurement data and modeling outputs are included in Appendix G of this document.

4.13.2 Existing Conditions

Overview of Environmental Noise

Sound is a vibratory disturbance created by a moving or vibrating source, which is capable of being detected by the hearing organs. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired, and may therefore be classified as a more specific group of sounds. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance, and, in the extreme, hearing impairment (California Department of Transportation [Caltrans] 2013).

Human Perception of Sound

Noise levels are commonly measured in decibels (dB) using the A-weighted sound pressure level (dBA). The A-weighting scale is an adjustment to the actual sound pressure levels so that they are consistent with the human hearing response. Decibels are measured on a logarithmic scale that quantifies sound intensity in a manner similar to the Richter scale used to measure earthquake magnitudes. A doubling of the energy of a noise source, such as doubling of traffic volume, would increase the noise level by 3 dB; dividing the energy in half would result in a 3 dB decrease (Caltrans 2013).

Human perception of noise has no simple correlation with sound energy; the perception of sound is not linear in terms of dBA or in terms of sound energy. Two sources do not “sound twice as loud” as one source. It is widely accepted the average healthy ear can barely perceive changes of 3 dBA, increase or decrease (i.e., twice the sound energy); a change of 5 dBA is readily perceptible (8 times the sound energy); and an increase (or decrease) of 10 dBA sounds twice (half) as loud (10.5 times the sound energy) (Caltrans 2013).

Sound Propagation and Shielding

Sound changes in both level and frequency spectrum as it travels from the source to the receiver. The most obvious change is the decrease in the noise level as the distance from the source increases. The manner by which noise reduces with distance depends on factors such as the type of sources (e.g., point or line), the path the sound will travel, site conditions, and obstructions. Sound levels are described as either a “sound power level” or a “sound pressure level,” which are two distinct characteristics of sound and they both share the same unit of measurement, the dB. However, sound power (expressed as L_{pw}) is the energy converted into sound by the source. As sound energy travels through the air, it creates a sound wave that exerts pressure on receivers, such as an eardrum or microphone, which is the sound pressure level. Sound measurement instruments

only measure sound pressure, and noise level limits are typically expressed as sound pressure levels. Noise levels from a point source (e.g., construction, industrial machinery, air conditioning units) typically attenuate, or drop off, at a rate of 6 dBA per doubling of distance. Noise from a line source (e.g., roadway, pipeline, railroad) typically attenuates at about 3 dBA per doubling of distance (Caltrans 2013). Noise levels may also be reduced by intervening structures; the amount of attenuation provided by this “shielding” depends on the size of the object and the frequencies of the noise levels. Natural terrain features, such as hills and dense woods, and man-made features, such as buildings and walls, can significantly alter noise levels. Generally, any large structure blocking the line of sight will provide at least a 5 dBA reduction in source noise levels at the receiver (Federal Highway Administration [FHWA] 2011).

Descriptors

The impact of noise is not a function of loudness alone. The time of day when noise occurs and the duration of the noise are also important factors of project noise impact. Most noise that lasts for more than a few seconds is variable in its intensity. Consequently, a variety of noise descriptors have been developed. The noise descriptors used in this EIR are the equivalent noise level (L_{eq}) and the community noise equivalent level (CNEL; may also be symbolized as L_{den}).

L_{eq} is one of the most frequently used noise metrics; it considers both duration and sound power level. The L_{eq} is defined as the single steady-state A-weighted sound level equal to the average sound energy over a time period. When no time period is specified, a one-hour period is assumed. The L_{max} is the highest noise level within the sampling period, and the L_{min} is the lowest noise level within the measuring period. Normal conversational levels are in the 60 to 65 dBA L_{eq} range; ambient noise levels greater than 65 dBA L_{eq} can interrupt conversations (Federal Transit Administration [FTA] 2018).

Noise that occurs at night tends to be more disturbing than that occurring during the day. Community noise can be measured using Community Noise Equivalent Level (CNEL or L_{DEN}), which is the 24-hour average noise level with a +5 dBA penalty for noise occurring from 7:00 p.m. to 10:00 p.m. and a +10 dBA penalty for noise occurring from 10:00 p.m. to 7:00 a.m. (Caltrans 2013).¹ The relationship between the peak-hour L_{eq} value and the CNEL depends on the distribution of noise during the day, evening, and night. Quiet suburban areas typically have CNEL noise levels in the range of 40 to 50 CNEL, while areas near arterial streets are in the 50 to 60+ CNEL range (FTA 2018).

Effects of Noise on People

The effects of noise on people can be placed into three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction
- Interference with activities such as speech, sleep, and learning/studying
- Physiological effects such as hearing loss or sudden startling

These potential effects can be caused by both short- and long-term exposure to very loud noises and long-term exposure to lower levels of sound. However, there is no perfect way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction, including interference with communication and human speech. A wide variation exists in individual thresholds of annoyance, and different tolerances to noise tend to develop based on an individual's

¹ Because CNEL is typically used to assess human exposure to noise, the use of dBA is implicit. Therefore, when expressing noise levels in terms of CNEL, the dBA unit is not included.

past experiences with noise. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise would be judged by those hearing it.

Nighttime noise can potentially affect sleep. Noise can make it difficult to fall asleep and create momentary disturbances of natural sleep patterns by causing shifts from deep to lighter stages (Los Angeles World Airports [LAWA] 2012). In addition, noise can awaken people from sleep, although nighttime awakenings may also occur independent of noise. People commonly attain full waking consciousness two or three times per night for reasons that have nothing to do with noise exposure.

Health effects from noise have been studied around the world for nearly 30 years. Scientists have attempted to determine if high noise levels can adversely affect human health apart from auditory damage. In a review of 30 studies conducted worldwide between 1993 and 1998, a team of international researchers concluded that, while some findings suggest that noise can affect health, improved research concepts and methods are needed to verify or discredit such a relationship. The team of international researchers called for more study of the numerous environmental and behavioral factors that can confound, mediate, or moderate survey findings. Until science refines the research process, a direct link between a single source noise exposure and non-auditory health effects remains to be demonstrated (LAWA 2012).

The Occupational Safety and Health Administration has an established noise exposure limit of 90 dBA for 8 hours per day (or higher for shorter duration exposures) to protect an individual from hearing loss (29 Code of Federal Regulations 1910.95). Noise levels in neighborhoods, even near a major airport or a major freeway, have been assessed as not sufficiently loud to cause hearing loss (LAWA 2012).

Overview of Vibration

Groundborne vibration of concern in environmental analysis consists of the oscillatory waves that move from a source through the ground to adjacent buildings or structures because vibration energy may propagate through the buildings or structures. Vibration may be felt, may manifest as an audible low-frequency rumbling noise (referred to as groundborne noise), and may cause windows, items on shelves, and pictures on walls to rattle. Although groundborne vibration is sometimes noticeable in outdoor environments, it is almost never annoying to people who are outdoors. The primary concern associated with vibration is that it can be intrusive and annoying to building occupants at vibration-sensitive land uses and may cause structural damage.

Typically, ground-borne vibration generated by manmade activities attenuates rapidly as distance from the source of the vibration increases. Vibration amplitudes are usually expressed in peak particle velocity (PPV) or root mean squared (RMS) vibration velocity. The PPV and RMS velocity are normally described in inches per second (in/sec). PPV is defined as the maximum instantaneous positive or negative peak of a vibration signal. PPV is often used because it corresponds to the stresses that are experienced by buildings (Caltrans 2020).

High levels of groundborne vibration may cause damage to nearby buildings or structures; at lower levels, groundborne vibration may cause minor cosmetic (i.e., non-structural damage) such as cracks. These vibration levels are nearly exclusively associated with high impact activities such as blasting, pile-driving, vibratory compaction, demolition, drilling, or excavation.

Regional Setting

The City of Riverside's (City's) General Plan Noise Element establishes Year 2003 and Year 2025 noise contours for roadways, freeways, and railways, as well as noise contours for area airports (Riverside Municipal Airport, Flabob Airport, and March Air Reserve Base). The Year 2025 freeway noise contour map (Figure N-6 of the City's General Plan) shows noise levels from Interstate 215 (I-215) freeway in excess of 60 CNEL extending onto the project site. The 60 CNEL noise contour of I-215 freeway extends between approximately 2,500 and 4,500 feet from the freeway centerline, and the 65 CNEL noise contour extends between approximately 1,500 and 2,500 feet from the freeway centerline (City of Riverside 2018). The project site is approximately 1,870 feet east of the I-215 freeway centerline at the closest point and approximately 2,670 feet east of the I-215 freeway centerline at the furthest point. Therefore, the project site falls within both the projected 60 and 65 CNEL noise contours for I-215 freeway.

Based on Figure N-7 of the City's General Plan, the project site is not located in any 2025 railroad noise contours. The project site is also not located within the noise contours for any area airports (Figures N-8 and N-9 of the City's General Plan) (City of Riverside 2018).

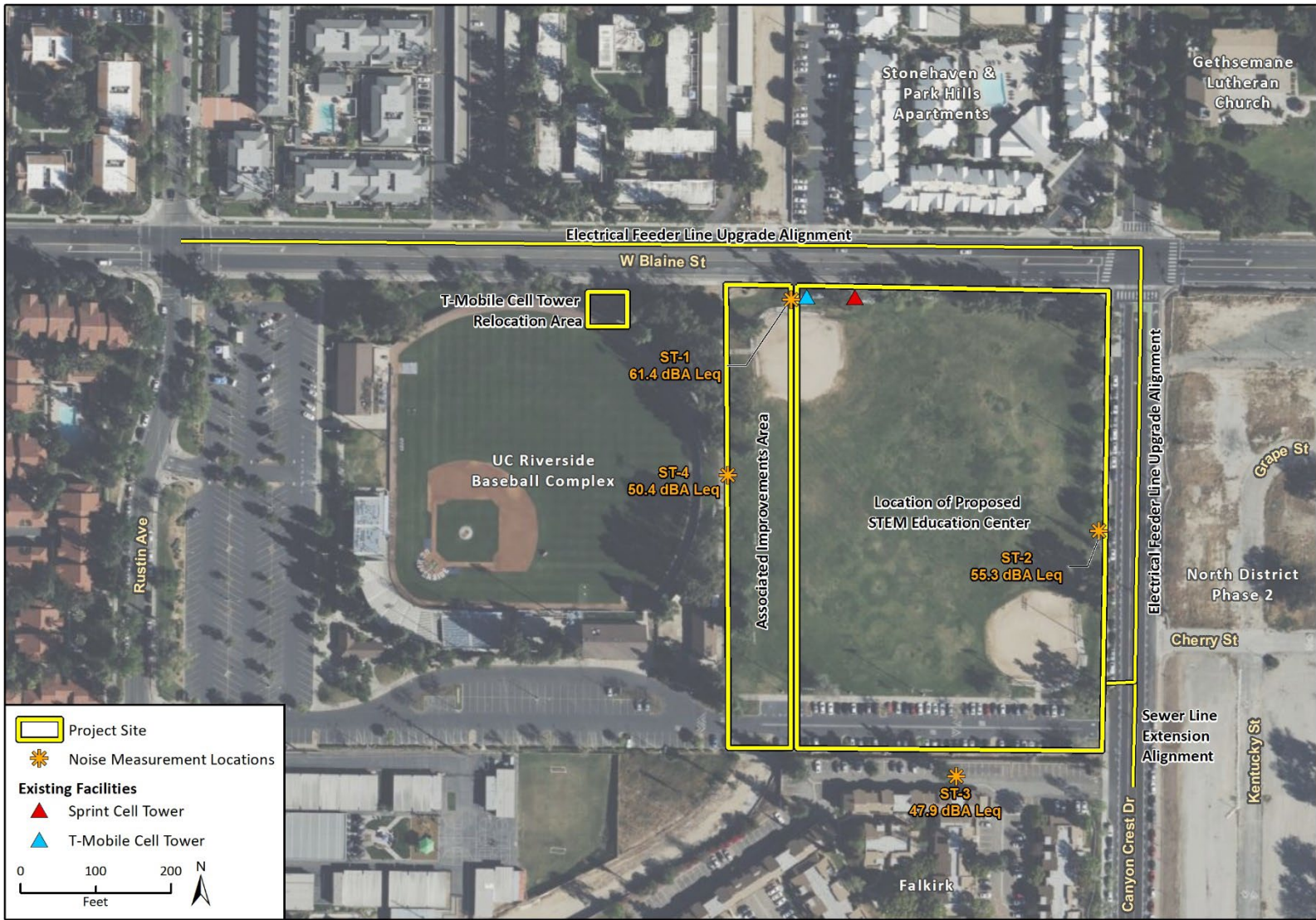
Campus and Project Site Setting

The most common source of noise in the vicinity of the project site is vehicular traffic on Blaine Street and Canyon Crest Drive. Secondary sources of noise include users of the on-site recreational field partaking in various activities (e.g., soccer and baseball games), vehicles circulating and parking in the surface parking lot and noise from the vehicles as a result of honking, door slams, and music, and students passing through the project site vicinity (e.g., biking, skateboarding, scootering, and talking). In addition, construction activities occur regularly on and in the vicinity of the UCR campus. Noise generated by construction activities is primarily isolated and limited to the immediate vicinity of each construction site. The actual noise levels generated by construction vary by project, and on a daily and hourly basis depending on the activity that is occurring, and the types and number of pieces of equipment that are operating.

Sound Level Measurements

To characterize ambient noise levels at and near the project site, four 15-minute noise level measurements were conducted on November 30, 2021. The noise meter was calibrated prior to measurements. Measurement Short-Term (ST) 1 was conducted to capture existing noise levels along Blaine Street; ST-2 was conducted to capture existing noise levels along Canyon Crest Drive; ST-3 was conducted to capture existing noise levels at multi-family residential uses adjacent to and south of the project site; and ST-4 was conducted to capture existing noise levels at recreational uses adjacent to and west of the project site. Noise measurement locations are shown in Figure 4.13-1. Table 4.13-1 summarizes the results of the short-term noise measurements and Table 4.13-2 shows the recorded traffic volumes.

Figure 4.13-1 Noise Measurement Locations



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Fig. 4.13-1 Noise Measurement Locations

Table 4.13-1 Project Site Vicinity Sound Level Monitoring Results

Measurement	Location	Sample Times	Approximate Distance to Primary Noise Source	L _{eq} (dBA)	L _{max} (dBA)	Primary Noise Sources
ST-1	Northwestern portion of the proposed location of the STEM Education Center adjacent to Blaine Street	12:56 p.m. – 1:11 p.m.	50 feet from Blaine Street centerline	61.4	71.1	Blaine Street traffic
ST-2	Eastern portion of the proposed location of the STEM Education Center adjacent to Canyon Crest Drive	1:26 p.m. – 1:41 p.m.	50 feet from Canyon Crest Drive centerline	55.3	69.1	Canyon Crest Drive traffic
ST-3	Adjacent to and south of the proposed location of the STEM Education Center in Falkirk Apartments parking lot	1:52 p.m. – 2:07 p.m.	220 feet from Canyon Crest Drive centerline	47.9	68.3	Canyon Crest Drive traffic
ST-4	Western portion of the proposed location of the STEM Education Center	12:31 p.m. – 12:46 p.m.	285 feet from Blaine Street centerline 550 feet from Canyon Crest Drive centerline	50.4	56.3	Blaine Street and Canyon Crest Drive traffic

dBA = A-weighted decibels; L_{eq} = average energy noise level; L_{max} = instantaneous maximum noise level

Note: Detailed sound level measurement data are included in Appendix G.

Source: Rincon Consultants, field measurements conducted on November 30, 2021, using ANSI Type II Integrating sound level meter

Table 4.13-2 Sound Level Monitoring Traffic Counts

Measurement	Roadway	Traffic	Autos	Medium Trucks	Heavy Trucks
ST-1	Blaine Street	15-minute count	190	1	0
		One-hour equivalent	760	4	0
		Percent	99%	1%	0%
ST-2	Canyon Crest Drive	15-minute count	83	1	0
		One-hour equivalent	332	4	0
		Percent	99%	1%	0%

Note: Detailed sound level measurement data are included in Appendix G.

Traffic Noise Modeling

Existing noise levels from roadway traffic on local roadways in the vicinity of the project site were calculated using transportation data provided by Fehr & Peers (Reed 2023). These noise levels are shown in Table 4.13-3 and are representative of existing peak hour noise levels at 50 feet from the roadway centerlines in the area.

Table 4.13-3 Existing Modeled Traffic Noise Levels

Roadway	Segment	Approximate Noise Level (CNEL at 50 feet from Roadway Centerline)
Blaine Street	West of Canyon Crest Drive	66
	East of Canyon Crest Drive	66
Canyon Crest Drive	North of Blaine Street	60
	South of Blaine Street	62

CNEL = Community Noise Equivalent Level

See Methodology in Section 4.13.3, *Impacts and Mitigation Measures*, for calculation parameters. Traffic volumes for the 2022 existing conditions scenario from Fehr & Peers (Reed 2023). Calculations included in Appendix G.

Sensitive Receivers

Noise exposure goals for various types of land uses reflect the varying noise sensitivities associated with those uses. Noise sensitive uses typically include single- and multi-family residential (including residence halls), churches, hospitals and similar health care institutions, convalescent homes, libraries, laboratories, and schools (UCR 2021).

Vibration-sensitive receivers, which are similar to noise-sensitive receivers, include those mentioned above. Vibration-sensitive receivers also include buildings where vibrations may interfere with vibration-sensitive equipment that is affected by vibration levels that may be well below those associated with human annoyance (e.g., recording studios or medical facilities with sensitive equipment).

As shown in Figure 4.13-1, the nearest existing sensitive receivers to the project site are the Falkirk Apartments for student housing immediately to the south; the Stonehaven Apartments for student housing; and the Park Hill Apartments immediately to the north across Blaine Street. The Gethsemane Lutheran Church is also located approximately 100 feet to the northeast of the project site (across Blaine Street and east of Canyon Crest Drive), and the REACH Leadership STEAM Academy is located approximately 130 feet to the southwest of the project site. In addition, as indicated in Table 4-1 in Section 4, *Environmental Impact Analysis*, North District Development Phase 2, which is located immediately east of the project site across Canyon Crest Drive and will include student housing, is currently under construction with an anticipated completion date of summer 2025. As a result, North District Development Phase 2 is likely to be completed before the start of construction for the proposed project. Therefore, the future student housing associated with North District Development Phase 2 is considered a sensitive receiver for the purpose of this analysis.

4.13.3 Regulatory Framework

Federal

Federal agencies that have developed noise standards include the FHWA, the Department of Housing and Urban Development, the Federal Interagency Committee on Urban Noise, and the Federal Aviation Administration (FAA). However, none of these federal noise laws, regulations, or policies for construction-related noise and vibration apply to the UCR campus.

State

California Noise Control Act of 1973

California Health and Safety Code Sections 46000 through 46080, known as the California Noise Control Act, find that excessive noise is a serious hazard to public health and welfare and that exposure to certain levels of noise can result in physiological, psychological, and economic damage. The act also finds there is a continuous and increasing bombardment of noise in urban, suburban, and rural areas. The California Noise Control Act declares the State of California has a responsibility to protect the health and welfare of its citizens by the control, prevention, and abatement of noise. It is the policy of the State to provide an environment for all Californians that is free from noise that jeopardizes their health or welfare.

California Building Code

The UC system has adopted the California Building Code (CBC) as its building code for campus development. Section 1206.5 directs the reader to the California Green Building Standards Code, Chapter 5, Division 5.5 for additional sound transmission requirements (as they relate to non-residential land uses).

Title 24, Part 11, Section 5.507 specifies environmental comfort with regard to noise exposure for non-residential buildings. Except buildings having few or no occupants, or where occupants are not likely to be affected by exterior noise, the subsections therein provide means of acoustical controls through which building assembly and component requirements are used to assess exterior noise issues. Section 5.507.4 stipulates two compliance approaches. The prescriptive method is utilized when occupied structures are planned within the 65 CNEL contour of an airport, railroad, highway traffic, or industrial noise source. In this case, the wall and roof-ceiling assemblies are required to achieve a composite sound transmission class (STC) rating of at least 50 or a composite outdoor-indoor transmission class (OITC) rating of at least 40. Additionally, exterior windows are required to be rated with a minimum STC of 40 or OITC of 30. The performance method does not require specific STC and OITC ratings; however, it requires the interior noise environment attributable to outdoor noise sources not exceed 50 dBA L_{eq} (one-hour). This noise level can be achieved by means of building envelope construction and/or exterior features such as sound walls or berms. The performance method requires an acoustical analysis documenting compliance with the interior noise level limits.

Caltrans Vibration Guidelines

Caltrans' *Transportation and Construction Vibration Guidance Manual* provides guidance on vibration issues associated with the construction, operation, and maintenance of Caltrans projects (Caltrans 2020). These guidelines address vibration-related annoyance to people, vibration-related damage to structures, and vibration-related adverse effects to sensitive equipment. This manual also addresses vibration prediction and screening assessment for construction equipment, methods that can be used to reduce vibration effects from transportation and construction sources, general procedures for addressing vibration issues, and vibration measurement and instrumentation.

For human annoyance potential, as shown in Table 4.13-4, Caltrans' vibration level threshold at which transient vibration sources (such as construction equipment) are considered to be distinctly perceptible is 0.24 in/sec PPV.

Table 4.13-4 Vibration Annoyance Potential Criteria

Human Response	Vibration Level (in/sec PPV)	
	Transient Sources	Continuous/ Frequent Intermittent Sources ¹
Severe	2.0	0.4
Strongly perceptible	0.9	0.10
Distinctly perceptible	0.24	0.04
Barely perceptible	0.04	0.01

in/sec = inches per second; PPV = peak particle velocity

Source: Caltrans 2020

¹ Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

Maximum recommended vibration limits for preventing damage to structure listed by Caltrans from the American Association of State Highway and Transportation Officials (AASHTO) are identified in Table 4.13-5.

Table 4.13-5 AASHTO Maximum Vibration Levels for Preventing Damage

Type of Situation	Limiting Velocity (in/sec)
Historic sites or other critical locations	0.1
Residential buildings, plastered walls	0.2–0.3
Residential buildings in good repair with gypsum board walls	0.4–0.5
Engineered structures, without plaster	1.0–1.5

Source: Caltrans 2020

University of California, Riverside

Campus Noise Control Programs

UCR implements numerous programs to reduce on- and off-campus noise levels. These programs are discussed below.

STATIONARY SOURCE NOISE CONTROLS

In order to provide a relatively quiet environment on the campus that is conducive to the educational process and to be mindful of off-campus sensitive uses (e.g., residential neighborhoods), campus noise-generating uses such as parking areas and heating, ventilation, and air conditioning (HVAC) units are designed to minimize the potential for noise impacts to adjacent campus buildings and off-campus sensitive uses (e.g., residential neighborhoods). In addition, building setbacks, architectural features, and orientation are used to reduce intrusive noise at sensitive student residential and educational building locations near main campus access routes.

CONSTRUCTION NOISE CONTROLS

As a standard condition of approval for any on campus construction, UCR limits the hours of exterior construction activities to 7:00 a.m. to 9:00 p.m. on Monday through Friday and 8:00 a.m. to 6:00 p.m. on Saturday, except under rare circumstances where such time limits are infeasible (e.g., for time-sensitive construction work such as concrete pouring, excessive heat warnings/

temperatures during the summer, operational emergencies). No exterior construction activities are permitted to occur on federal holidays. Transportation routes for construction traffic onto campus from previous projects have typically been through Blaine Street to Canyon Crest Drive; University Avenue to Canyon Crest Drive, West Campus Drive, or Iowa Avenue; or through Martin Luther King Boulevard to Canyon Crest Drive or Iowa Avenue.

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The LRDP does not contain any policies or objectives pertaining to noise.

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

Riverside County Airport Land Use Commission

The Riverside County Airport Land Use Compatibility Plan (ALUCP) establishes various policies and compatibility maps for individual ALUCP airports, including the March Air Reserve Base/Inland Port Airport. Review by the Riverside County Airport Land Use Commission (ALUC) is required when a project is located within the boundaries of an Airport Influence Area and the project proposes a legislative action like a General Plan Amendment, Specific Plan Amendment, Zone Change, or Zoning Ordinance. The Riverside County ALUCP also identifies noise contours for each airport.

City of Riverside General Plan

The City's General Plan Noise Element contains policies and programs to achieve and maintain noise levels compatible with various types of land uses by reducing existing and potential noise impacts. Policies include incorporating noise considerations into the site plan review process, requiring the inclusion of noise-reducing design features in new development, avoiding locating noise-sensitive land uses in existing and anticipated noise-impacted areas, and minimizing noise impacts generated by vehicular sources through the use of noise reduction features and speed limits (City of Riverside 2018).

Riverside Municipal Code

Riverside Municipal Code Title 7 strives to prohibit unnecessary, excessive, and/or annoying noise in the City, thereby minimizing noise levels and mitigating the effects of noise to provide a safe and healthy living environment. Chapter 7.25 establishes exterior sound level limits for various land use categories for daytime and nighttime hours, and Chapter 7.26 establishes interior sound level limits for residential land uses, schools, and hospitals for daytime and nighttime hours. Certain exemptions are provided in Section 7.35.020 for activities such as emergency work, sanctioned school activities, and construction activities occurring during allowed hours.

4.13.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Noise and Vibration to assess the proposed project.

Would the proposed project result in:

- a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- b. Generation of excessive groundborne vibration or groundborne noise levels?
- c. Exposure to people residing or working in the project area to excessive noise levels for a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport?

The CEQA Guidelines also do not define the levels at which temporary and permanent increases in ambient noise levels are considered “substantial.” As a result, for the purposes of analyzing project impacts under threshold “a,” the following thresholds were utilized:

- **Construction Noise.** Pursuant to Riverside Municipal Code Section 7.35.020, noise generated by construction activities within the City’s jurisdiction is exempt from compliance with the noise level limits contained in Riverside Municipal Code Title 7 if they occur between the hours of 7:00 a.m. to 7:00 p.m., Monday through Friday and 8:00 a.m. to 5:00 p.m. on Saturday. Therefore, for purposes of analyzing project impacts under CEQA, the FTA *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018) criteria were used. The FTA provides reasonable criteria for assessing construction noise impacts based on the potential for adverse community reaction. For residential uses, the daytime noise threshold is 80 dBA L_{eq} for an 8-hour period (FTA 2018). This threshold is used to determine if project construction would result in a substantial temporary increase in ambient noise levels.
- **On-site Operational Noise.** On-site noise generated by project operation would be potentially significant if operational noise levels exceed the exterior or interior sound level limits established in Riverside Municipal Code Chapters 7.25 and 7.26, which would constitute a substantial permanent increase in ambient noise levels. For residential land uses, Riverside Municipal Code Chapter 7.25 establishes an exterior noise standard of 55 dBA L_{eq} during daytime hours (7:00 a.m. to 10:00 p.m.), which cannot be exceeded by up to 5 dB for more than 30 minutes in an hour, by more than 5 dB (i.e., 60 dBA L_{eq}) for more than 15 minutes in an hour, by more than 10 dB (i.e., 65 dBA L_{eq}) for more than five minutes in an hour, by more than 15 dB (i.e., 70 dBA L_{eq}) for more than one minute in an hour, or by more than 20 dB (i.e., 75 dBA L_{eq}) for any period of time. For residential land uses, Riverside Municipal Code Chapter 7.26 establishes an interior noise standard of 45 dBA L_{eq} during daytime hours (7:00 a.m. to 10:00 p.m.), which cannot be exceeded by up to 5 dB for more than five minutes in an hour, by more than 5 dB (i.e., 50 dBA L_{eq}) for more than one minute in an hour, or by more than 10 dB (i.e., 55 dBA L_{eq}) for any period of time. The daytime exterior and interior noise standards were utilized to evaluate on-site operational noise because these hours encompass the operational hours of the proposed STEM Education Center. To evaluate noise generated by HVAC equipment, which may run continuously during warm weather, the exterior noise standard of 55 dBA L_{eq} and the interior noise standard of 45 dBA L_{eq} were used. To evaluate exterior PA system noise, which

would typically be limited to five minutes or less during any hour, the exterior noise standard of 65 dBA L_{eq} and the interior noise standard of 45 dBA L_{eq} were used for both noise generated by the PA system alone and in conjunction with the HVAC equipment.

- **Off-site Roadway Noise.** Off-site roadway noise generated by project operation would be potentially significant if the ambient noise level would be increased by 3 dBA, which is the level of change that is barely audible to the average healthy ear, as discussed in Section 4.13.1, *Existing Conditions*. This noise level increase would also constitute a substantial permanent increase in ambient noise levels.

The operational and construction noise limits used in this analysis are set at reasonable levels at which a substantial noise level increase as compared to ambient noise levels would occur. Operational noise limits are lower than construction noise limits to account for the fact that permanent noise level increases associated with continuous operational noise sources typically result in adverse community reaction at lower magnitudes of increase than temporary noise level increases associated with construction activities that occur during daytime hours and do not affect sleep. Furthermore, these noise limits are tailored to specific land uses; for example, the noise limits for residential land uses are lower than those for commercial land uses. The difference in noise limits for each land use indicates that the noise limits inherently account for typical ambient noise levels associated with each land use. Therefore, an increase in ambient noise levels that exceeds these absolute limits would also be considered a substantial increase above ambient noise levels. As such, a separate evaluation of the magnitude of noise level increases over ambient noise levels would not provide additional analytical information regarding noise impacts and therefore is not included in this analysis.

The CEQA Guidelines also do not define the levels at which groundborne vibration or groundborne noise is considered “excessive.” Therefore, the following Caltrans and FTA vibration standards are used to analyze project impacts under threshold “b”:

- For human receivers, the vibration level threshold to determine significance is 0.24 in/sec PPV, which is the level at which transient vibration sources (such as construction equipment) are considered to be distinctly perceptible
- For residential structures, the vibration level threshold to determine significance is 0.4 in/sec PPV

No historical building structures or laboratory uses are located in the vicinity of the project site. Therefore, vibration thresholds for these types of buildings are not utilized in the analysis.

Methodology

Construction Noise

Construction noise was estimated using the FHWA RCNM. RCNM predicts construction noise levels for a variety of construction operations based on empirical data and the application of acoustical propagation formulas. RCNM provides reference noise levels for standard construction equipment, with an attenuation of 6 dBA per doubling of distance for stationary equipment. Using RCNM, potential construction noise levels were estimated at noise-sensitive receivers near the project site.

Variation in power imposes additional complexity in characterizing the noise source level from construction equipment. Power variation is accounted for by describing the noise at a reference distance from the equipment operating at full power and adjusting it based on the duty cycle of the

activity to determine the L_{eq} of the operation (FTA 2018). For general construction activities, construction noise would typically be higher during the heavier periods of initial construction (i.e., site preparation and grading work) and would be lower during the later construction phases (i.e., interior building construction). Typical heavy construction equipment during project grading and site preparation would include bulldozers, excavators, front-end loaders, dump trucks, and graders. Activities known to generate high noise levels, such as pile driving, breaking, and blasting, are not anticipated to occur for the proposed project. Table 4.13-6 presents typical construction equipment noise levels from RCNM.

Table 4.13-6 Typical Construction Equipment Noise Levels

Equipment	Acoustical Usage Factor (%) ¹	dBA L_{max} at 50 feet
Auger Drill Rig	20	84
Backhoe	40	78
Compactor (ground)	20	83
Concrete Mixer Truck	40	79
Crane	16	81
Dozer	40	82
Dump Truck	40	76
Excavator	40	81
Flat Bed Truck	40	74
Front End Loader	40	79
Generator	50	81
Grader	40	85
Pickup Truck	40	75
Pneumatic Tools	50	85
Roller	20	80
Scraper	40	84
Warning Horn	5	83
Welder/Torch	40	74

dBA = A-weighted decibels; L_{max} = instantaneous maximum noise level

¹ The average percentage of time each piece of construction equipment is operating at full power (i.e., its loudest condition) during a construction operation.

Source: FHWA 2006

It was conservatively assumed diesel engines would power all construction equipment for project construction activities. Construction equipment would not all operate at the same time or location due to the different tasks performed by each piece of equipment. In addition, construction equipment would not be in constant use during the day. For the purpose of estimating construction noise levels for the proposed project, the modeling conservatively assumed simultaneous operation of up to four pieces of equipment during each phase of construction for the proposed STEM Education Center and relocated T-Mobile Cell Tower and up to three pieces of equipment during each phase of construction for the proposed utilities improvements (due to space constraints with the area within Canyon Crest Drive and Blaine Street). The use of this many pieces of equipment simultaneously is unlikely. For the proposed STEM Education Center and relocated T-Mobile Cell Tower, construction noise levels were estimated from the edge of the construction area. For the

utilities improvement alignment, construction activities would be mobile and would be constantly moving in a linear path along the alignment. Construction equipment would travel throughout the work areas, which are anticipated to be approximately 100 feet in length by approximately 10 feet in width. Therefore, for this project component, construction noise levels were estimated at the average distance of sensitive receivers from mobile equipment. Construction noise levels were estimated at the nearest exterior use areas (i.e., outdoor areas of frequent human use) of the noise-sensitive receivers, pursuant to Caltrans guidance (Caltrans 2013). The proposed aboveground work over the Gage Canal within the associated improvements area would be limited to the removal of existing bleachers, lighting, and the baseball diamond and installation of replacement landscaping, which would not involve the use of heavy equipment that would generate substantial noise. Therefore, noise generated by construction activities within this area is not evaluated quantitatively.

The construction equipment list for each phase was sourced from the air quality and greenhouse gas modeling completed in the California Emissions Estimator Model, the outputs of which are provided in Appendix C. Noise levels were not estimated for the architectural coating phase because this phase would only require the use of an air compressor. RCNM calculations are included in Appendix G.

Groundborne Vibration

There are no substantial vibration sources associated with operation of the proposed project. Thus, only construction activities have the potential to generate groundborne vibration affecting nearby vibration-sensitive receivers, especially during grading and excavation of the project site. The greatest vibratory sources during construction of the project would be a large bulldozer used during demolition, site preparation, and paving and a vibratory roller used during paving. Activities known to generate high vibration levels, such as pile driving, breaking, and blasting, would not occur. Construction vibration estimates are based on vibration levels reported by the FTA (FTA 2018). Table 4.13-7 shows the reference vibration levels for a large bulldozer and vibratory roller that were used in the assessment of construction vibration.

Table 4.13-7 Vibration Levels Measured during Construction Activities

Equipment	PPV at 25 feet (in/sec)
Vibratory Roller	0.210
Large Bulldozer	0.089

PPV = peak particle velocity; in/sec = inches per second
Source: FTA 2018

Although groundborne vibration is sometimes noticeable in outdoor environments, it is almost never disruptive to people who are outdoors and the vibration level threshold for human perception is assessed at occupied structures (FTA 2018). Therefore, vibration impacts were assessed at the structures of affected properties.

On-site Operational Noise

Operational noise sources would include landscape maintenance (which currently occurs under baseline conditions); general site activities (e.g., students conversing); mechanical equipment associated with buildings (e.g., HVAC units, public address [PA] system); vehicular and bus circulation, and deliveries and parking activities. Landscape maintenance, vehicle and bus circulation, parking, and general site activities are not considered substantial noise generators due

to the low noise levels associated with these sources, the short duration of noise, the distance between the project site and the nearest sensitive receivers, and the similarity to existing on-site noise sources. Therefore, these three noise sources are not discussed further. Similar to construction noise impacts, operational noise impacts are analyzed at exterior use areas of “frequent human use.”²

Mechanical HVAC units would have the potential to generate noise levels that run continuously, primarily during daytime school hours. HVAC units were assumed to be installed on the rooftop of the building. The noise modeling assumed the use of large rooftop units, similar or equivalent to Trane QuietCurb units, that can range from 20 to 130 tons. This unit’s exhaust fan return generates a sound power level of 97.1 dBA. Manufacturer’s specifications for the HVAC unit are included in Appendix G. While buildings associated with the proposed project may be placed near existing on-campus and off-campus noise sensitive receivers, setbacks from the property lines to the buildings would be incorporated, and the HVAC systems would likely be located at an inner location of the rooftop. To account for the vertical distance from the HVAC units located on the rooftop of the proposed building to the nearest sensitive receivers, an extra 30 feet was added to the horizontal setback distance. In addition, because HVAC units would be set back from the rooftop edge, the rooftop edge would provide a shielding effect by blocking the line-of-sight between the unit and the exterior use areas at ground level. This shielding was conservatively assumed to result in a 5-dBA reduction at the exterior use areas of nearby noise-sensitive receivers.

The proposed project would also include the installation of a PA system located throughout the interior and exterior of the proposed STEM Education Center, which would be considered a long-term operational noise source. Operations of PA systems are generally intermittent by nature (i.e., less than approximately one minute in duration). In order for the outdoor PA system to function effectively and be clearly audible, the sound pressure emanating from the speaker would typically be 10 to 15 dB higher than existing ambient noise levels. Typical noise generated by a school’s PA system would be either tone generated (bell or chime) or verbal announcements through a speaker. PA systems typically generate a noise level of 85 to 95 dBA at 3 feet. For the purposes of this analysis, it was assumed the external PA system would be located at the closest point of the proposed building to the exterior use area of the nearby sensitive receivers and that the PA system would generate a noise level of 95 dBA L_{max} at 3 feet. Manufacturer’s specifications for the PA system are included in Appendix G.

Off-site Traffic Noise

The proposed project would generate approximately 1,860 daily vehicle trips, thereby increasing traffic on local roadways (Appendix H). To determine project impacts to roadway noise levels, roadway noise was modeled using the FHWA Traffic Noise Model (TNM) spreadsheet.³ Roadway noise was modeled under existing, opening year (2028), opening year (2028) plus project, cumulative (2045), and cumulative (2045) plus project conditions along Blaine Street and Canyon Crest Drive based on traffic counts and modeling prepared by Fehr & Peers (Reed 2023). These locations were selected for modeling because they would be the most affected by project-generated traffic, capture potential roadway noise impacts to noise-sensitive residential uses, and

² Caltrans defines areas of “frequent human use” as areas where people are exposed to noise for an extended period of time on a regular basis (Caltrans 2020). For example, Caltrans states a parking lot would not be an area of frequent human use because people are only in a parking lot for a few minutes, whereas areas with amenities for people to use (e.g., benches, barbeque facilities, covered group picnic areas, and uncovered picnic tables) would typically be used for hours at a time.

³ The FHWA TNM spreadsheet relies on version 2.5. The differences between TNM version 2.5 and version 3.0 do not affect the calculations made in the TNM spreadsheet.

average daily traffic (ADT) volumes for these locations are provided in the traffic impact study prepared for the project. Based on the nature of the roadways and traffic count observations made during sound level measurements (see Table 4.13-2 in Section 4.13.1, *Existing Conditions*), it was assumed that the vehicle mix of ADT on both roadways is 99 percent cars and one percent medium trucks. Additional model assumptions include standard estimates of 5 percent of daily trips occurring in the evening and 15 percent of daily trips occurring at night and vehicle speeds consistent with posted speed limits on the modeled roadways. To provide a conservative estimate of project emissions, vehicle trips associated with existing on-site development (i.e., the open recreational field) were not modeled or accounted for in the traffic noise level modeling for the proposed project.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Impact NOI-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD POTENTIALLY RESULT IN GENERATION OF A SUBSTANTIAL TEMPORARY INCREASE IN AMBIENT NOISE LEVELS IN THE VICINITY OF THE PROJECT IN EXCESS OF APPLICABLE THRESHOLDS. THEREFORE, IMPLEMENTATION OF MITIGATION MEASURE MM N-1 WOULD BE REQUIRED TO REDUCE IMPACTS TO LESS THAN SIGNIFICANT.

As indicated in Section 4.13.1, *Existing Conditions*, the nearest existing noise-sensitive receivers to the project site are the Falkirk Apartments for student housing immediately to the south; the Stonehaven Apartments for student housing immediately to the north across Blaine Street; and the Park Hill Apartments immediately to the north across Blaine Street. In addition, by the time construction of the proposed project commences, construction of the North District Development Phase 2 student housing, located immediately to the east across Canyon Crest Drive, is likely to be complete, resulting in additional noise-sensitive receivers. The potential for implementation of the proposed project to result in substantial temporary or permanent increases in ambient noise levels at these sensitive receivers is discussed in the following subsections.

Construction Noise

Construction activities would generate temporary noise, primarily due to the operation of on-site equipment. Each phase of construction has a specific equipment mix, depending on the work to be accomplished during that phase. Each phase also has its own noise characteristics; some will have higher continuous noise levels than others, and some have high instantaneous noise levels. As a result, the magnitude of the temporary increase in noise levels would vary in intensity and duration over the course of construction activities depending on the phase, number and types of equipment in use, and activity requirements.

Construction noise was evaluated at exterior use areas (i.e., outdoor areas of frequent human use) for nearby noise-sensitive receivers. Caltrans defines areas of “frequent human use” as areas where people are exposed to noise for an extended period of time on a regular basis (Caltrans 2020). For example, Caltrans states a parking lot would not be an area of “frequent human use” because people are only in a parking lot for a few minutes, whereas areas with amenities for people to use (e.g., benches, barbeque facilities, covered group picnic areas, and uncovered picnic tables) would typically be used for hours at a time. This analysis uses the Caltrans definition to determine where

noise impacts may occur. As indicated previously, the proposed aboveground work over the Gage Canal within the associated improvements area would be limited to the removal of existing bleachers, lighting, and the baseball diamond and installation of replacement landscaping, which would not involve the use of heavy equipment that would generate substantial noise. Therefore, noise generated by construction activities within this area is not evaluated further.

As discussed in Section 4.13.2, *Regulatory Framework*, UCR limits construction hours to 7:00 a.m. to 9:00 p.m. on Monday through Friday and 8:00 a.m. to 6:00 p.m. on Saturday as a standard condition of approval. In addition, for construction activities located on City-property, the proposed project would be required to comply with Riverside Municipal Code Section 7.35.020, which limits construction activities to 7:00 a.m. to 7:00 p.m. on weekdays, and 8:00 a.m. to 5:00 p.m. on Saturdays.

PROPOSED STEM EDUCATION CENTER

Table 4.13-8 presents estimated construction noise levels at the nearest noise-sensitive receivers during construction of the proposed STEM Education Center. As shown therein, construction noise levels would range from approximately 69 dBA L_{eq} to 87 dBA L_{eq} during all construction phases at the exterior use areas of adjacent noise-sensitive receivers. Project construction noise would exceed the threshold of 80 dBA L_{eq} at the exterior use areas of the Falkirk Apartments during the demolition, site preparation, grading, and paving phases, but not during the building construction phase. (Project construction noise levels at the exterior use areas of the Stonehaven Apartments or North District Development Phase 2 student housing would not exceed the threshold of 80 dBA L_{eq} .) Therefore, construction activities associated with the proposed STEM Education Center would potentially result in generation of a substantial temporary increase in ambient noise levels in the vicinity of the project, and impacts would be potentially significant without mitigation. However, implementation of **Mitigation Measure MM N-1** would reduce potential impacts to **less than significant with mitigation incorporated** by providing for construction noise reduction measures.

Table 4.13-8 Construction Noise Levels at Sensitive Receivers – STEM Education Center

Construction Equipment	Land Use	Distance to Receiver from Edge of Construction Site (feet)	Approximate Noise Level (dBA L_{eq})	Threshold (dBA L_{eq})	Threshold Exceeded?
Demolition – Concrete Saw, 2 Dozers, Excavator	Stonehaven Apartments	115	78	80	No
	NDD Phase 2 Student Housing	100	79	80	No
	Falkirk Apartments	40	87	80	Yes
Site Preparation – 2 Tractors, 2 Dozers	Stonehaven Apartments	115	78	80	No
	NDD Phase 2 Student Housing	100	79	80	No
	Falkirk Apartments	40	87	80	Yes
Grading – Tractor, Excavator, Grader, Dozer	Stonehaven Apartments	115	78	80	No
	NDD Phase 2 Student Housing	100	79	80	No
	Falkirk Apartments	40	87	80	Yes

Construction Equipment	Land Use	Distance to Receiver from Edge of Construction Site (feet)	Approximate Noise Level (dBA L _{eq})	Threshold (dBA L _{eq})	Threshold Exceeded?
Building Construction – Crane, 3 Tractors	Stonehaven Apartments	115	77	80	No
	NDD Phase 2 Student Housing	100	79	80	No
	Falkirk Apartments	315	69	80	No
Paving – 2 Pavers, 2 Rollers	Stonehaven Apartments	115	72	80	No
	NDD Phase 2 Student Housing	100	74	80	No
	Falkirk Apartments	40	82	80	Yes

dBA = A-weighted decibel; L_{eq} = one-hour equivalent noise level; NDD = North District Development
 See Appendix G for RCNM results.

As described under *Effects of Noise on People* under Section 4.13.1, *Existing Conditions*, effects of noise can be placed into three general categories: annoyance, interference with activities (e.g., speech, sleep, studying, etc.), and physiological effects (e.g., hearing loss). Because construction noise would exceed 80 dBA L_{eq} at the Falkirk Apartments during demolition, site preparation, and grading, construction noise has the potential to be annoying or to interfere with activities such as speaking or studying. Construction noise would typically not occur at nighttime when sleep may be disturbed. Hearing loss occurs at loud, sustained noise levels such as 90 dBA for eight hours per day; noise-sensitive receivers would not be exposed to this type of high, sustained noise levels.

RELOCATED T-MOBILE CELL TOWER

Table 4.13-9 presents estimated construction noise levels at the nearest noise-sensitive receivers during re-location of the T-Mobile Cell Tower. As shown therein, construction noise levels would range from approximately 63 dBA L_{eq} to 79 dBA L_{eq} during all construction phases at the exterior use areas of adjacent noise-sensitive receivers. Project construction noise would not exceed the threshold of 80 dBA L_{eq} at the nearest noise sensitive receivers. Therefore, construction activities associated with the re-location of the T-Mobile Cell Tower would not result in generation of a substantial temporary increase in ambient noise levels in the vicinity of the project, and impacts would be **less than significant**.

Table 4.13-9 Construction Noise Levels at Sensitive Receivers – Relocated T-Mobile Cell Tower

Construction Equipment	Land Use	Distance to Receiver from Edge of Construction Site (feet)	Approximate Noise Level (dBA L _{eq})	Threshold (dBA L _{eq})	Threshold Exceeded?
Site Preparation – 2 Tractors, 2 Dozers	Park Hill Apartments	100	79	80	No
	NDD Phase 2 Student Housing	580	64	80	No
	Falkirk Apartments	670	63	80	No
Grading – Tractor, Excavator, Grader, Dozer	Park Hill Apartments	100	79	80	No
	NDD Phase 2 Student Housing	580	64	80	No
	Falkirk Apartments	670	63	80	No
Infrastructure Installation – Crane, 3 Tractors	Park Hill Apartments	100	79	80	No
	NDD Phase 2 Student Housing	580	64	80	No
	Falkirk Apartments	670	63	80	No

dBA = A-weighted decibel; L_{eq} = one-hour equivalent noise level; NDD = North District Development
See Appendix G for RCNM results.

PROPOSED UTILITIES IMPROVEMENTS

Table 4.13-10 presents estimated construction noise levels at the nearest noise-sensitive receivers during construction of the proposed utilities improvements. As shown therein, construction noise levels would range from approximately 58 dBA L_{eq} to 80 dBA L_{eq} during all construction phases at the exterior use areas of adjacent noise-sensitive receivers. Project construction noise would not exceed the threshold of 80 dBA L_{eq} at the nearest noise sensitive receivers. Therefore, construction activities associated with the proposed utilities improvements would not result in generation of a substantial temporary increase in ambient noise levels in the vicinity of the project, and impacts would be **less than significant**.

Table 4.13-10 Construction Noise Levels at Sensitive Receivers – Utilities Improvement Alignment

Construction Equipment	Land Use	Distance to Receiver from Center of Construction Area (feet)	Approximate Noise Level (dBA L _{eq})	Threshold (dBA L _{eq})	Threshold Exceeded?
Demolition – Concrete Saw, Excavator, Dozer	Stonehaven Apartments, NDD Phase 2 Student Housing	50	80	80	No
	Falkirk Apartments	280	65	80	No
Trenching – Tractor, Excavator, Dozer	Stonehaven Apartments and NDD Phase 2 Student Housing	50	78	80	No
	Falkirk Apartments	280	63	80	No

Construction Equipment	Land Use	Distance to Receiver from Center of Construction Area (feet)	Approximate Noise Level (dBA L _{eq})	Threshold (dBA L _{eq})	Threshold Exceeded?
Proposed Utilities Improvements Installation – Forklift, Tractor, Generator	Stonehaven Apartments, NDD Phase 2 Student Housing	50	76	80	No
	Falkirk Apartments	280	61	80	No
Paving – 2 Pavers, Roller	Stonehaven Apartments, NDD Phase 2 Student Housing	50	73	80	No
	Falkirk Apartments	280	58	80	No

dBA = A-weighted decibel; L_{eq} = one-hour equivalent noise level; NDD = North District Development
 See Appendix G for RCNM results.

On-site Operational Noise

The primary new sources of on-site operational noise associated with the proposed project would consist of the HVAC system and the PA system. Table 4.13-11 summarizes estimated operational noise levels from each of these sources as well as combined on-site operational noise levels at the exterior use areas of the nearest sensitive receivers. As shown therein, operational noise levels for individual sources as well as the combined operational noise level would not exceed the exterior or interior noise level thresholds, which are based on the exterior and interior noise standards established in Riverside Municipal Code Chapters 7.25 and 7.26, respectively. Therefore, project operation would not result in generation of a substantial permanent increase in ambient noise levels in the vicinity of the proposed project, and impacts would be **less than significant**.

Off-Site Traffic Noise

The proposed project would generate an increase in traffic volumes on local roadways as a result of student, parent, faculty/staff, and visitor vehicle trips and bus trips to and from the project site. Table 4.13-12 summarizes estimated off-site traffic noise levels at the nearest sensitive receivers for opening year (2028), opening year (2028) plus project, cumulative (2045), and cumulative (2045) plus project conditions along Blaine Street and Canyon Crest Drive. As shown therein, existing noise levels would increase by up to 1 dBA under the opening year (2028) plus project scenario and under the cumulative (2045) plus project scenario, which would not exceed the thresholds for off-site traffic noise impacts. Therefore, off-site traffic generated under the proposed project would not result in a substantial permanent increase in ambient noise levels in the vicinity of the project, and impacts would be **less than significant**.

Table 4.13-11 Operational Noise Levels at Sensitive Receivers

Noise Source	Land Use	Distance From Source to Exterior Use Area (Feet)	Approximate Exterior Noise Level (dBA L_{eq})	Exterior Noise Level Threshold (dBA L_{eq}) ¹	Approximate Interior Noise Level (dBA L_{eq}) ²	Interior Noise Level Threshold (dBA L_{eq}) ³	Exceeds Thresholds?
HVAC Equipment (130-ton Train QuietCurb)	Stonehaven Apartments	375	44	55	24	45	No
	Future North District Development Phase 2 Student Housing	250	48	55	28	45	No
	Falkirk Apartments	500	42	55	22	45	No
PA System	Stonehaven Apartments	315	55	65	35	45	No
	Future North District Development Student Housing	250	57	65	37	45	No
	Falkirk Apartments	500	51	65	31	45	No
Combined Noise Levels	Stonehaven Apartments	--	55	65	35	45	No
	Future North District Development Student Housing	--	58	65	38	45	No
	Falkirk Apartments	--	52	65	32	45	No

dBA = A-weighted decibel; L_{eq} = one-hour equivalent noise level

¹ Based on Riverside Municipal Code Chapter 7.25.

² Conservatively assumes an exterior-to-interior noise level reduction of 20 dBA, based on FHWA guidance that modern building construction generally provides an exterior-to-interior noise level reduction of 20 to 35 dBA with closed windows (FHWA 2011).

Table 4.13-12 Traffic Noise Levels

Roadway/Segment	Roadway Noise (CNEL) ¹							
	Opening Year (2028)	Opening Year (2028) + Project	Noise Level Increase	Exceed Criteria? ²	Cumulative (2045)	Cumulative (2045) + Project	Noise Level Increase	Exceed Criteria? ²
Blaine Street								
West of Canyon Crest Drive	67	68	1	No	68	69	1	No
East of Canyon Crest Drive	67	67	<1	No	68	68	<1	No
Canyon Crest Drive								
North of Blaine Street	61	61	<1	No	62	62	<1	No
South of Blaine Street	64	65	1	No	66	66	<1	No

CNEL = Community Noise Equivalent Level

¹ The modeled locations were 50 feet from the roadway centerline.

² Criteria includes an increase of 5 dBA L_{eq} over ambient traffic noise levels at noise-sensitive land uses where future noise levels would not exceed 70 CNEL, or an increase of 3 dBA over ambient traffic noise levels where future noise levels would exceed 70 CNEL

Secondary Impacts of Displaced Recreational Activities

As discussed in Section 4.16, *Recreation*, the proposed project would require removal of the existing open recreation field on site, which would result in the re-location of existing on-site UCR and City recreational activities to other nearby UCR and City facilities. Under existing baseline conditions, this re-location of City recreational activities would occur regardless of the proposed project on September 16, 2027, which is the date on which the City's non-exclusive license for use of the open recreation field on site will expire. Therefore, assuming project construction begins as early as January 1, 2026, these effects on recreational facility usage would only be attributable to the proposed project for a period of approximately 20.5 months.

Upon the start of project construction, existing users of the open recreational field on site may travel to other nearby UCR and City facilities to engage in recreational activities previously conducted on the project site. Several other UCR and City recreational facilities are available within two miles of the project site, as outlined in Section 4.16, *Recreation*. The UCR or City recreational facility chosen by each user would depend on what recreational facilities the user desires (e.g., soccer fields, softball fields, open fields). Noise generated by any given user during recreational activities would likely be similar in nature to noise generated by existing users of these facilities. Nevertheless, the increase in frequency of usage of other existing UCR and City recreational facilities may result in an overall increase in ambient noise levels at sensitive receivers located near these facilities.

For the purposes of CEQA, estimating the change in ambient noise levels associated with re-located recreational activities would be speculative because of the multiple unknown variables and data involved, such as the recreational facilities each existing user of the open recreational field would choose to utilize and what types of recreational activities they would conduct. As stated in Sections 15144, 15145, and 15146(b) of the CEQA Guidelines, the lead agency is not required to, nor should it, engage in speculation or conjecture. As stated in CEQA Guidelines Section 15145, if, after thorough investigation, a lead agency finds that particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact.

Mitigation Measures

The following mitigation measure would be required to address potential impacts related to construction noise.

MM N-1 Construction Noise Reduction Measures

To reduce construction noise levels impacts to noise-sensitive receivers, temporary sound barriers/blankets shall be installed along the southern boundary of the proposed STEM Education Center site during the demolition, site preparation, grading, and paving phases to break the line-of-sight between the construction equipment and exterior use areas of nearby noise-sensitive receivers (Falkirk Apartments). The temporary barriers/blankets shall have a minimum sound transmission loss of 10 dB and noise reduction coefficient of 0.75. Additionally, the temporary barriers/blankets shall be a minimum of 16 feet in height or of sufficient height to intercept the line of sight between the noise-generating source of the construction equipment (i.e., the exhaust) and nearby residential receivers, whichever is greater. If temporary blankets are used instead of a barrier, they shall be of sufficient height to extend from the top of the temporary construction fence and drape on the ground or be sealed at the ground. The temporary blankets shall have grommets

along the top edge with exterior grade hooks, and loop fasteners along the vertical edges with overlapping seams, with a minimum overlap of 2 inches.

In addition, UCR/RUSD shall require implementation of the following best management practices during project construction:

- Hours of exterior construction activities on City property shall comply with the construction hours allowed in Riverside Municipal Code Section 7.35.020 of 7:00 a.m. to 7:00 p.m. on Monday through Friday and 8:00 a.m. to 5:00 p.m. on Saturday. Hours of exterior construction activities on UCR property shall comply with UCR's standard construction hours requirements of 7:00 a.m. to 9:00 p.m. on Monday through Friday and 8:00 a.m. to 6:00 p.m. on Saturday except under rare circumstances where such time limits are infeasible. No exterior construction activities shall occur on federal holidays.
- Construction traffic shall follow routes so as to minimize the noise impact of this traffic on the surrounding community.
- Contract specifications shall require construction equipment be muffled or otherwise shielded. Contracts shall specify engine-driven equipment be fitted with appropriate noise mufflers.
- Construction equipment with back-up alarms shall be equipped with either audible self-adjusting backup alarms or alarms that only sound when an object is detected. Self-adjusting backup alarms shall automatically adjust to 10 dBA over the surrounding background levels. All non-self-adjusting backup alarms shall be set to the lowest setting required to be audible above the surrounding noise levels.
- Stationary construction equipment and vehicle staging shall be sited to direct noise away from sensitive receivers.
- Communication, including meetings when necessary, shall be conducted, as needed, with on-campus constituents to provide advance notice of construction activities to coordinate these activities with the academic calendar, scheduled events, and other situations, as appropriate, and to ensure the mutual needs of the proposed project and of those impacted by construction noise are met.
- A sign shall be provided at the construction site entrance, or other conspicuous location, that includes a 24-hour telephone number for project information, and to report complaints. If necessary, an inquiry and corrective action shall be taken, in a timely manner.

Significance After Mitigation

As described under *Effects of Noise on People* under Section 4.13.1, *Existing Conditions*, effects of noise can be placed into three general categories: annoyance, interference with activities (e.g., speech, sleep, studying, etc.), and physiological effects (e.g., hearing loss). Because construction noise would exceed 80 dBA L_{eq} at the Falkirk Apartments during the demolition, site preparation, grading, and paving phases, construction noise has the potential to be annoying or to interfere with activities such as speaking or studying. Construction noise would typically not occur at nighttime when sleep may be disturbed. Hearing loss occurs at loud, sustained noise levels such as 90 dBA for eight hours per day; noise-sensitive receivers would not be exposed to this type of high, sustained noise levels.

Implementation of **Mitigation Measure MM N-1** would reduce potential impacts associated with construction noise during demolition, site preparation, grading, and paving for the proposed STEM Education Center to a less than significant level by reducing construction noise levels by at least 10 dBA L_{eq} . Construction noise levels during these phases at the exterior use areas of the Falkirk

Apartments would thus be reduced to approximately 77 dBA L_{eq} , which would be below the threshold of significance of 80 dBA L_{eq} .

Threshold b: Would the proposed project result in generation of excessive groundborne vibration or groundborne noise levels?

Impact NOI-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN GENERATION OF EXCESSIVE GROUNDBORNE VIBRATION OR GROUNDBORNE NOISE LEVELS. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As indicated in Section 4.13.1, *Existing Conditions*, the nearest existing vibration-sensitive receivers to the project site are the Falkirk Apartments for student housing immediately to the south; the Stonehaven Apartments for student housing immediately to the north across Blaine Street; and the Park Hill Apartments immediately to the north across Blaine Street. In addition, by the time construction of the proposed project commences, construction of the North District Development Phase 2 student housing, located immediately to the east across Canyon Crest Drive, is likely to be complete, resulting in additional vibration-sensitive receivers. The potential for implementation of the proposed project to result in generation of excessive groundborne vibration or groundborne noise levels at these sensitive receivers is discussed in the following subsections.

Construction

Project construction would not involve activities typically associated with excessive groundborne vibration such as pile driving or blasting. The equipment utilized during project construction that would generate the highest levels of vibration would include vibratory rollers and large bulldozers. The distances at which these pieces of equipment would reach or exceed the applicable vibration thresholds for human annoyance and structural damage to residential buildings are shown in Table 4.13-13. As shown therein, vibration impacts relative to human annoyance would occur if a vibratory roller operated within 25 feet of the nearest structure or if a large bulldozer operated within 15 feet of the nearest structure. Vibration impacts relative to structural damage to residences would occur if a vibratory roller operated within 20 feet of the nearest structure or if a large bulldozer operated within 10 feet of the nearest structure. The nearest vibration-sensitive receivers to the project site are multi-family residential buildings to the south at a distance of approximately 50 feet and to the north at a distance of approximately 100 feet. Therefore, vibration-generating equipment would not operate within the distances at which significant vibration impacts would occur relative to human annoyance and structural damage to residences. In addition, UCR/RUSD would limit the hours of exterior construction activities on City property from 7:00 a.m. to 7:00 p.m. on Monday through Friday and 8:00 a.m. to 5:00 p.m. on Saturday and to 7:00 a.m. to 9:00 p.m. on Monday through Friday and 8:00 a.m. to 6:00 p.m. on Saturday on UCR property except under rare circumstances where such time limits are infeasible (refer to Impact NOI-1) such that disturbance of residences during sensitive hours of sleep would be avoided. Furthermore, the proposed aboveground work over the Gage Canal would be limited to the removal of existing bleachers, lighting, and the baseball diamond and installation of replacement landscaping, which would not involve the use of heavy equipment that could result in vibration-induced damage to the canal. In addition, the proposed utilities improvements and any replacement/relocated water utility lines would be installed below the canal via trenchless methods that would not generate substantial vibration. Therefore, project construction would not generate excessive groundborne vibration or groundborne noise levels, and impacts would be less than significant.

Table 4.13-13 Screening Distances for Vibration-Sensitive Receiver Type and Source

Receiver Type	Vibration Threshold (in/sec PPV) ²	Distance from Vibration Source (feet) ¹	
		Vibratory Roller	Large Bulldozer ³
Human Annoyance (Distinctly Perceptible)	0.24	25	15
Residential Buildings	0.4	20	10

in/sec = inches per second; PPV = peak particle velocity

¹ These distances are based upon typical vibration levels for a vibratory roller and large bulldozer of approximately 0.210 in/sec PPV and 0.089 in/sec PPV at 25 feet, respectively (FTA 2018).

² Thresholds are based on the vibration thresholds outlined in Table 4.13-4 and Table 4.13-5 under *Significance Criteria* in Section 4.13.3, *Impacts and Mitigation Measures*.

³ A large bulldozer conservatively represents all heavy-duty construction equipment, other than a vibratory roller.

Operation

Operation of the proposed project would not involve substantial vibration sources associated with operation (e.g., operation of heavy-duty off-road equipment or heavy industrial processes). Therefore, project operation would not generate excessive groundborne vibration or groundborne noise levels, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold c: For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the proposed project expose people residing or working in the project area to excessive noise levels?

Impact NOI-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT EXPOSE PEOPLE RESIDING OR WORKING IN THE PROJECT AREA TO EXCESSIVE NOISE LEVELS ASSOCIATED WITH PRIVATE AIRSTRIPS, PUBLIC USE AIRPORTS, AND PUBLIC AIRPORTS. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The nearest airstrips and airports to the project site are the Flabob Airport (approximately 4.4 miles to the west of the project site) and March Air Reserve Base (approximately 7.3 miles to the southeast of the project site). As discussed in Section 4.9, *Hazards and Hazardous Materials*, UCR is in Area E of the March Air Reserve Base/Inland Port Airport Land Use Compatibility Plan influence area. In Area E, land uses that attract very high concentrations of people in confined areas are discouraged in locations below or near the principal arrival and departure flight tracks. The project site is not located near the principal arrival and departure flight tracks (Riverside County Airport Land Use Commission 2014).

The proposed project would not exacerbate flight patterns and their associated noise levels. Furthermore, the proposed project would be required to comply with Title 24 building standards, including noise insulation requirements, which would ensure students, faculty, staff, and visitors of

the proposed project would not be adversely affected by existing airport-related noise sources. As noted in Section 4.13.1, *Existing Conditions*, the project site is not located in the noise contours of any area airports (City of Riverside 2018). Therefore, the proposed project would not expose people working at the project site to excessive noise levels from airports within two miles of the project site, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.13.5 Cumulative Impacts

Construction noise and vibration are localized and rapidly attenuate within an urban environment. Although some cumulative projects in the surrounding area may be under construction at the same time as the proposed project, these projects are not located in close enough proximity to the project site such that noise and vibration from construction activities would impact the same sensitive receivers and structures. Of the future cumulative development projects shown in Table 4-1 in Section 4, *Environmental Impact Analysis*, the proposed project's construction noise impacts may have the potential to combine with those of the North District Development Phase 2, which is located immediately to the east across Canyon Crest Drive, should this project be constructed during a similar timeframe. Therefore, construction noise impacts would be potentially **significant**. However, implementation of **Mitigation Measure MM N-1** would be required for the proposed project, which would reduce construction noise levels such that they do not exceed 10 dBA over ambient noise levels at the nearest noise-sensitive receivers. As a result, the proposed project's impacts related to construction noise would **not be cumulatively considerable (less than significant)**.

No cumulative construction vibration impacts would occur because vibration impacts are typically only of concern within approximately 25 feet of the nearest structures (see Table 4.13-7 under Impact N-2), and vibration generated at the North District Development Phase 2 thus would not have the potential to impact the same vibration-sensitive receivers as those near the project site.

Some cumulative projects in the surrounding area would include similar operational noise sources as the proposed project (e.g., parking activities, HVAC equipment, and outdoor use areas). Similar to construction noise and vibration, operational noise and vibration from these sources would be localized and rapidly attenuates within an urbanized setting due to the effects of intervening structures and topography that block the line of sight and other noise sources closer to receivers that obscure project-related noise. Furthermore, cumulative development projects outside the UCR campus would be subject to compliance with the noise standards and limits contained in the City's General Plan Noise Element and Riverside Municipal Code Title 7 (as summarized in Section 4.13.3, *Regulatory Framework*), which would minimize the potential for cumulative operational noise impacts to occur. In addition, the proposed project would result in no operational vibration impacts that could combine with other projects' operational vibration to create cumulative impacts. Therefore, impacts with respect to operational noise and vibration would **not be cumulatively considerable (less than significant)**.

Cumulative development within the influence area of the March Air Reserve Base would expose additional people residing or working in the project area to elevated noise levels from airport operations. However, these projects would be subject to review by the Riverside County Airport Land Use Commission for consistency with the March Air Reserve Base/Inland Port Airport Land Use Compatibility Plan, which includes policies and standards to avoid adverse noise impacts to people residing and working in the airport land use planning area. Therefore, adherence to the policies and standards of the March Air Reserve Base/Inland Port Airport Land Use Compatibility Plan would preclude cumulative impacts related to noise from airport operations, and impacts would **not be cumulatively considerable (less than significant)**.

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4.14 Population and Housing

4.14.1 Introduction

This section describes the existing and projected population and housing characteristics at the project site and surrounding areas and evaluates whether implementation of the proposed project would result in any environmental impacts associated with unplanned population growth.

4.14.2 Existing Conditions

Regional Setting

The City of Riverside (City) is the county seat of Riverside County (County), and it is also part of a larger geographic area known as Inland Southern California, which includes western Riverside County, southwestern San Bernardino County, and portions of the Pomona Valley in easternmost Los Angeles County. The three-county area includes housing within a reasonable commute of UCR (approximately one hour each way).

Population

The Southern California Association of Governments (SCAG) serves as the Metropolitan Planning Organization for the Southern California region. SCAG projects major growth indicators for its region, including Riverside, San Bernardino, Los Angeles, Imperial, Orange, and Ventura counties. Population, household, and employment estimates and forecasts are maintained at the jurisdictional and unincorporated county levels and provide the basis for developing the regional growth forecast for the region. Based on SCAG's population forecast, the City currently has, and is projected to continue to have, the highest population of the major cities in Inland Southern California (SCAG 2020a).

UCR is located entirely within the City while Riverside Unified School District is located primarily in the City and partially in the unincorporated County and the City of Jurupa Valley. Between 2000 and 2020, the total population of Riverside increased from 255,166 to 317,847, or by 24.6 percent (California Department of Finance [DOF] 2021 and 2022). During this time period, the 21- to 34-year-old age group experienced the largest increase in share, growing from 21.3 to 26.1 percent (SCAG 2019). By 2045, the population of the City is expected to increase by approximately 77,953 residents to a total of approximately 395,800 residents (SCAG 2020a).

Housing

Historically, rising property costs have driven people with diverse incomes and educational backgrounds to migrate inland for homes or rentals they can afford. Migration to Inland Southern California from coastal regions in California is anticipated to continue as housing costs in coastal cities remain high. However, income inequality remains a factor in the County, similar to other counties in the State (SCAG 2018). SCAG estimates that the City has the highest number of housing units of the major cities in the region.

The City currently has 100,940 housing units (DOF 2022). Most housing stock in the City consists of single-family units, and over 60 percent of the housing units were built after 1970 (SCAG 2019). The housing stock in the City is projected to grow by approximately 20,600 housing units to a total of approximately 115,100 housing units by 2045 (SCAG 2020a).

Between 2000 and 2018, homeownership rates decreased, and the share of renters increased. In 2018, approximately 45.8 percent of residents rented, and 54.2 percent owned a home (SCAG 2019). As of January 2022, the City had a vacancy rate of 4.1 percent, lower than the State average of 6.7 percent. The City also has an average of 3.13 persons per household, higher than the State average of 2.81 persons per household (DOF 2022).

Campus and Project Site Setting

Population

Population typically refers to the number and types of residents in a particular jurisdiction. Undergraduate students, graduate students, faculty, and staff are included in characterizing the UCR campus population. Other people who may be present on campus, such as vendor support staff and visitors, are assumed to already be included in population estimates and forecasts for the jurisdictions in which they reside; therefore, they are not included in campus population estimates provided here.

The total UCR campus population in Fall 2023 was 31,393 persons, as shown in Table 4.14-1. Academic personnel include instructional faculty and other academic appointments. Academic and non-academic personnel counts exclude students employed by UCR to prevent double counting.

Table 4.14-1 Fall 2021 Total Campus Population

Category	Population
Students (i.e., undergraduates and graduates)	26,426
Academic Personnel (i.e., faculty, staff)	1,791
Non-Academic Personnel (i.e., staff)	3,176
Total	31,393

Source: UCR 2024a and 2024b

Housing

No housing is located on the project site; however, the City-owned parcel that currently contains the Sprint Cell Tower is zoned Multi-Family Residential (R-3-1500). The California Department of Education considers R-3 zoning to be acceptable for school uses. RUSD has obtained a letter of conformance for the zone from the City's Planning Commission as part of the California Department of Education's site certification process.

4.14.3 Regulatory Framework

Federal

There are no federal regulations related to population and housing that would be applicable to the proposed project.

State

California Government Code Section 65583

California Housing Element law requires each city and county to develop local housing programs to meet their "fair share" of the future Statewide housing growth needs for all income groups, as

determined by the California Department of Finance (California Government Code Section 65583). The regional councils of government, including SCAG, are then tasked with determining the regional housing needs allocation, referred to as the Regional Housing Needs Assessment (RHNA) process. SCAG is the lead agency responsible for overseeing the RHNA process for the City and other jurisdictions in the County.

University of California, Riverside

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development facilities, circulation, open space and infrastructure on the UCR campus. A primary goal of the 2021 LRDP is to expand on-campus residential facilities to include approximately 14,000 beds (40 percent of the student population) in University-managed or controlled housing in proximity to the Academic Center (an increase from the current 32 percent housed on campus). The 2021 LRDP contains objectives and policies relevant to population growth and student housing applicable to the proposed project, which are summarized in Table 4.14-2.

Table 4.14-2 UCR 2021 LRDP Objectives and Policies Related to Population and Housing

Objective	Policy
Mobility	
Reduce future vehicular traffic, parking demand, and greenhouse gas emissions, by increasing student housing on campus up to 40 percent of the projected enrollment in 2035.	Continue to grow and support on-campus residency by focusing on more affordable student housing options as well as the capacity for returning students (upperclassmen) and graduate students.
	Continue to grow and support on-campus residency by focusing on more affordable student housing options as well as the capacity for returning students (upperclassmen) and graduate students.

Source: UCR 2021

The UCR-owned parcels on the project site have a 2021 LRDP land use designation of Canyon Crest Gateway and Recreation & Athletics. The Canyon Crest Gateway designation is intended to support the transformation of the Canyon Crest Drive corridor into a vibrant and welcoming campus “Main Street.” This area is envisioned to accommodate University-oriented high-density, horizontal and vertical mixed-use gateway environments that brings year-round vitality to the area, including but not limited to student housing, recreation, university-oriented services, administrative and support service offices, neighborhood-serving commercial and retail spaces, and restaurants. In addition, the Recreation & Athletics designation allows facilities primarily for intercollegiate athletics and campus recreation as well as other supporting uses (UCR 2021). Such land uses would be compatible with a STEM Education Center and T-Mobile Cell Tower within the Canyon Crest Gateway and Recreation & Athletics LRDP designations, respectively.

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to

compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

Connect SoCal (2020-2045 Regional Transportation Plan/Sustainable Communities Strategy)

On September 3, 2020, SCAG’s Regional Council formally adopted the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) (titled “Connect SoCal”). The 2020-2045 RTP/SCS builds upon the progress made through implementation of the 2016-2040 RTP/SCS and includes ten goals focused on promoting economic prosperity, improving mobility, protecting the environment, and supporting healthy/complete communities. The SCS implementation strategies include focusing growth near destinations and mobility options, promoting diverse housing choices, leveraging technology innovations, and supporting implementation of sustainability policies. The SCS establishes a land use vision of center-focused placemaking, concentrating growth in and near Priority Growth Areas, transferring of development rights, urban greening, creating greenbelts and community separators, and implementing regional advance mitigation (SCAG 2020b).

Southern California Association of Governments Regional Housing Needs Assessment

The RHNA is mandated by State housing law as part of the periodic process of updating local housing elements. The RHNA quantifies the need for housing in each jurisdiction during specified planning periods. In March 2020, SCAG adopted its 6th cycle RHNA allocation plan, which covers the planning period of October 2021 through October 2029. Communities use the RHNA in land use planning to prioritize local resource allocation and to decide how to address identified existing and future housing needs resulting from population, employment, and household growth. The RHNA does not necessarily encourage or promote growth but rather requires communities to anticipate growth so that the region and subregion can collectively grow in ways that enhance quality of life, improve access to jobs, promote transportation mobility, and address social equity and fair share housing needs. All cities and counties located in SCAG’s jurisdiction are subject to the SCAG RHNA requirements. The City received its RHNA allocation of 18,458 housing units for the 2021-2029 Housing Element Cycle. The RHNA factors in the housing needs generated by universities in the region, including UCR (SCAG 2021).

City of Riverside General Plan

HOUSING ELEMENT

The Housing Element of the City’s General Plan was last updated in 2021 to respond to the 2021-2029 Housing Element Cycle (6th cycle RHNA allocation). The Housing Element contains the housing needs assessment based on demographic characteristics and anticipated changes, a constraints analysis for the development of housing by income groups and special needs, an inventory of housing resources, and objectives, policies, and implementation programs to address the development, improvement, and conservation of housing in Riverside. As part of this process, the City has provided a buffer of approximately 5,500 dwelling units (approximately 30 percent over and above the RHNA allocation), and the City will identify space that could result in an increase of up to 24,000 new dwelling units for the 2021–2029 RHNA cycle (City of Riverside 2021).

4.14.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Population and Housing to assess the proposed project.

Would the proposed project:

- a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?
- b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

Methodology

Impacts related to population and housing are generally social or economic in nature. Under the CEQA Guidelines, a social or economic change is generally not considered a significant effect on the environment unless the changes can be directly linked to a physical change (CEQA Guidelines Section 15131). As further discussed under CEQA Guidelines Section 15126.2(e), “[I]t must not be assumed that growth in any area is necessarily beneficial, detrimental, or of little significance to the environment.” The purpose behind analyzing growth is to determine whether increases in the population may induce unplanned growth and/or tax existing community service facilities, thereby requiring the construction of new housing and/or facilities that could cause significant environmental effects.

For purposes of this analysis, “substantial” unplanned population growth is defined as growth from construction of new homes, businesses, roads, or other infrastructure that would result in population growth that significantly exceeds planned growth in the SCAG projections. For impacts to be considered significant under the thresholds above, the proposed project would also have to result in a significant environmental impact not already disclosed.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Impact POP-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT INDUCE SUBSTANTIAL UNPLANNED POPULATION GROWTH IN AN AREA, EITHER DIRECTLY OR INDIRECTLY. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Construction

During construction, a temporary increase in construction workers on site would occur. These construction workers would likely originate from an existing local pool of construction employees in the region and would not likely relocate their households as a consequence of the proposed project due to the temporary and short-term nature of project construction. The increased employment of construction workers on campus would not result in an increase in the residential population of the City or the Inland Southern California region. Therefore, project construction would not induce

substantial unplanned population growth in an area, either directly or indirectly, and impacts would be **less than significant**.

Operation

The proposed project consists of a STEM education facility with an approximate enrollment capacity of 1,200 students in grades 9 through 12 (up to 800 students at any given time) that is intended to serve the Riverside Unified School District's (RUSD's) existing service population. Operation of the relocated T-Mobile Cell Tower would be similar to that of the existing T-Mobile Cell Tower, and maintenance of the associated improvements area would be similar to that of existing conditions, which includes infrequent inspection and maintenance. Once installed within the existing public rights-of-way, the utilities improvement alignment would also include infrequent inspection and maintenance similar to that of other City infrastructure maintenance and operations.

The proposed project does not include housing or businesses and therefore would not directly induce substantial unplanned population growth. The project also does not include the extension of roads, and utility connections would be limited to tie-ins to existing infrastructure adjacent to the project site as well as the proposed utilities improvements that would be sized to meet only the electrical and sewer demand of the proposed project. As discussed in Section 2, *Project Description*, the proposed project would accommodate the re-location of approximately 240 full-time high school students that currently attend the existing STEM facility at the former Hyatt Elementary School site in the City. In addition, approximately 800 students would attend the proposed STEM Education Center on a part-time basis while continuing to attend other local schools for the other half of the school day. The remaining full-time students would be sourced from RUSD's existing student population at facilities other than the existing STEM facility. The approximately 60 faculty and staff that are anticipated to be employed with implementation of the proposed project would be a mix of new hires and transfers from within the RUSD. Therefore, the proposed project would not indirectly induce substantial unplanned population growth because it would not result in additional school capacity to accommodate new students in RUSD's service area. As such, impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

Impact POP-2 THE PROPOSED PROJECT WOULD NOT DISPLACE SUBSTANTIAL NUMBERS OF EXISTING PEOPLE OR HOUSING, NECESSITATING THE CONSTRUCTION OF REPLACEMENT HOUSING ELSEWHERE. NO IMPACT WOULD OCCUR, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The project site currently contains an open recreational field with two baseball diamonds, two cell towers, surface parking, the UCR Baseball Complex, and the public rights-of-way of Blaine Street and Canyon Crest Drive and does not include housing or people residing on the site. Therefore, no existing people or housing would be displaced by the proposed project, and **no impact** would occur.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

No impacts would occur without mitigation.

4.14.5 Cumulative Impacts

Pursuant to CEQA Guidelines Section 15130(a)(1), an EIR should not discuss cumulative impacts which do not result in part from the proposed project. As described under Impact POP-2, the proposed project would result in no impacts to housing and would therefore result in **no cumulative impact** to housing when combined with other projects.

The geographic context for cumulative impacts on population is the City and the County. Cumulative development within the region would result in construction jobs. While the proposed project and cumulative development would result in limited short-term construction employment opportunities, the City had an unemployment rate of 3.3 percent in 2022 (City of Riverside 2022). Additionally, regional construction jobs occur on a temporary basis, which allows construction workers to move onto new jobs in the region. Given these factors, it is anticipated that there is a sufficient construction workforce within the City and surrounding County area to meet the construction-related needs of the proposed project and cumulative development. While some construction workers may choose to temporarily stay in the City or nearby areas in the County, it is assumed that the majority of workers would remain in their current residences in the local area, and few would require the accommodations of hotels and motels in the City or near UCR campus. Therefore, construction of the proposed project in combination with cumulative development would not result in substantial unplanned population growth, and **no cumulative impact** would occur (Impact POP-1). The approximately 60 faculty and staff that are anticipated to be employed with implementation of the proposed project would be a mix of new hires and transfers from within the RUSD. Operation of the proposed project would result in employment opportunities within the City and surrounding County and would also pull from existing employees from RUSD. It is anticipated that there is sufficient workforce within the City and surrounding County to meet the operational needs of the proposed project needs and cumulative development. Therefore, operation of the proposed project in combination with cumulative development would not result in substantial unplanned population growth, and **no cumulative impact** would occur (Impact POP-1).

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4.15 Public Services

4.15.1 Introduction

This section describes the existing public services at and around the project site and addresses the potential for implementation of the proposed project to result in the need for new or physically altered public services.

4.15.2 Existing Conditions

Regional Setting

Fire Protection

CITY OF RIVERSIDE FIRE DEPARTMENT

The City of Riverside Fire Department (RFD) provides fire protection, fire inspection services, community education, and emergency preparedness and training for the City of Riverside (City). RFD is composed of 210 uniformed members and additional support staff at 14 fire stations strategically located throughout the City (RFD 2016a). In addition to providing emergency response services and firefighting services, RFD is responsible for enforcing fire codes, providing fire inspections, assisting in planning and development standards for High Fire Hazard Areas (and enforcing such standards), and community education and outreach. RFD maintains mutual and/or automatic aid agreements with the City of Corona Fire Department, City of Colton Fire Department, one military fire department, Riverside County Fire Department, and San Bernardino County Fire Department (UCR 2021a).

RFD's goal is to improve total response time by breaking down components of response goals as follows:

- Call processing at 1 minute 30 seconds for 90 percent of all incidents
- Turnout at 1 minute 30 seconds for 90 percent of all incidents
- Travel time at 5 minutes for 90 percent of all incidents
- Total response time at 7 minutes 30 seconds for 90 percent of all incidents

In 2017 (the most recent year with available information), 90 percent of all incident response times for RFD were 7 minutes and 45 seconds or less (UCR 2021a).

Turnout time measures the time elapsed from when the emergency dispatcher informs the fire unit of an emergency and when the unit leaves the fire station (Reglen and Scheller 2018). RFD strives to achieve a turnout time of under two minutes at all fire stations. During the period of October to December 2019, turnout time for all 14 RFD fire stations was 2 minutes and 10 seconds (City of Riverside 2020a). In addition, approximately 93 percent of the RFD vehicle fleet meets the National Standard turnout time (UCR 2021a).

RIVERSIDE COUNTY FIRE DEPARTMENT

Riverside County Fire Department (RCFD), in cooperation with the California Department of Forestry and Fire Protection (CAL FIRE), provides fire and emergency services to residents of unincorporated areas of Riverside County (County) and to 20 partner cities, including cities located near the City.

The RCFD is also the Operational Area Coordinator for the California Fire and Rescue Mutual Aid System for all fire service jurisdictions in the County (including municipal, tribal, State, and federal). Upon receipt of a call for mutual aid through Riverside County’s Emergency Command Center, the County’s mutual aid coordinator will determine whether a city or the County will provide a response. The Emergency Command Center is a combined County, State, and local agency dispatch center responsible for alerting and handling incidents over a 7,200-square mile area (UCR 2021a).

Police Protection

The City of Riverside Police Department (RPD) provides police protection services for the City. The RPD is split into three sectors: Field Operations, Investigations Division, and Special Operations. Field Operations provide first response for incoming calls as well as oversight of the Traffic Unit, K-9 Officers, the firearms range, and Technical Services Unit (RPD 2016a). The Investigations Division provides investigative services and is split into the Centralized Investigations Bureau and Special Investigations Bureau. The Investigations Division also utilizes interagency task forces that perform investigative functions that cross jurisdictional boundaries. Agencies that work in collaboration with RPD include the Federal Bureau of Investigation and the Drug Enforcement Administration (RPD 2016b). The Special Operations division oversees daily operations of neighborhood policing centers and includes special units such as air support, school resource officers, hostage negotiations, and SWAT teams (RPD 2016c).

The RPD operates from three facilities called Neighborhood Policing Centers that are based on four geographic service areas. The RPD has a goal to respond within seven minutes to calls of a life-threatening nature, such as a robbery in progress or an accident involving bodily injury. Officers strive to respond to less-urgent calls within 12 minutes, such as shoplifting and petty theft (City of Riverside 2007).

Schools

Three school districts are located within the City’s boundaries: Alvord Unified School District, Riverside Unified School District (RUSD), and Moreno Valley Unified School District. Enrollment statistics for the City are shown in Table 4.15-1.

Table 4.15-1 City of Riverside Public School Enrollment (2014-2018)

Grade Level	2014	2016	2018
Kindergarten-6 th grade	29,303	28,846	28,467
Grades 7-9	14,006	13,923	13,861
Grades 10-12	16,468	16,226	16,298

Sources: SCAG 2019

UCR is in the RUSD service area, which serves a large portion of the City as well as the nearby unincorporated areas of Highgrove and Woodcrest (City of Riverside 2007). RUSD, the largest of the three districts, currently serves nearly 40,000 students in preschool through 12th grade throughout the District (RUSD 2022). RUSD schools include 29 elementary schools, seven middle schools, five comprehensive high schools, seven alternative/specialty schools, and a grades 5-12 STEM school. There are a variety of preschool options at different schools as well as transitional kindergarten classes at each elementary school (RUSD 2022). Enrollment statistics for RUSD are shown in Table 4.15-2.

Table 4.15-2 RUSD Enrollment (2015-2021)

Grade Level	2015	2018	2021
Kindergarten-6 th grade	20,755	21,877	22,208
Grades 7-9	9,579	10,327	9,990
Grades 10-12	22,208	10,1048	10,021

Sources: California Department of Education 2016, 2018, and 2023

Parks and Recreational Facilities

The City of Riverside Park System includes nearly 2,942 acres of developed and undeveloped park land, including approximately 226 acres of neighborhood parks and approximately 370 acres of community parks (City of Riverside 2020b). The City has 59 developed and natural parks totaling approximately 2,592 acres, and undeveloped park land totaling approximately 350 acres. These parks include pocket parks, neighborhood parks, community parks, regional parks, and joint-use and special-use facilities. The City’s park system provides numerous recreation opportunities including sports fields, playgrounds, recreation centers, and access to 12 community centers, three senior centers, eight swimming pools (including one joint-use pool), 23.7 miles of trails, and 94.5 miles of bike lanes (City of Riverside 2020b). The City also maintains facility joint-use agreements with local school districts, Riverside City College, and UCR for the Riverside Sports Complex. Additionally, the City operates multi-purpose recreational trails for equestrian, biking, hiking, and pedestrian use (City of Riverside 2016). For a full discussion of parks and recreation, please refer to Section 4.16, *Recreation*.

Libraries

The Riverside Public Library provides library services from the Main Library and seven branch libraries that service the City of Riverside. Collectively, the Riverside Public Library contains approximately 425,000 books and other library materials, 400 public access computers, and an approximate annual circulation of 1.23 million (City of Riverside 2020c).

Campus and Project Site Setting

Fire Protection

RIVERSIDE FIRE DEPARTMENT

The proposed project would be served by RFD. The nearest fire stations to the project site are listed in Table 4.15-3.

Table 4.15-3 Nearest RFD Fire Stations to the Project Site

RFD Station No. and Address	Staff	Equipment	Approximate Driving Distance and Time to the Project Site ¹
Station 4 3510 Cranford Avenue	1 captain 1 engineer 1 firefighter 1 firefighter/paramedic	1 engine 1 water tender	0.8 mile to the project site; 3 minutes
Station 1 3401 University Avenue	1 battalion chief 2 captains 2 engineers 2 firefighters 3 firefighter/paramedic	1 quint truck 1 brush truck 1 utility squad 1 squad 1 engine 1 all-terrain vehicle (ATV)	2.8 miles to project site; 9 minutes
Station 14 725 Central Avenue	1 captain 1 engineer 1 firefighter 1 firefighter/paramedic	2 engines 2 quads 1 utility truck	3.4 miles to project site; 7 minutes

RFD = City of Riverside Fire Department

¹ Approximate distance via local roadways to the project site. Time based on Google Maps input, which is a conservative estimation because emergency vehicles can reach a speed greater than the speed limit, use traffic signal preemption, and have roadway priority. The fastest time was used when there were multiple route options available.

Source: RFD 2016b

UCR FIRE PREVENTION PROGRAM

The UCR Fire Prevention program is intended to ensure responsible and consistent protection for persons and property in, on, and exposed to UCR-administered properties pursuant to State statutes, regulations, and University policies. Services include fire inspections, fire protection engineering, fire prevention training, and Automatic External Defibrillator training (UCR 2022).

Police Protection

The University of California Police Department (UCPD) is located on campus at 3500 Canyon Crest Drive. UCPD operates 24 hours per day, 365 days a year and employs police officers, security guards, and Community Service Officers to deliver public safety services on and near the campus. UCPD is approved/certified by the California Commission on Peace Officer Standards and Training and vested with the authority and responsibility to enforce all applicable local, State, and federal laws. All UCPD Officers are duly sworn peace officers with statewide authority as defined in California Penal Code Section 830.2(b), are authorized to carry firearms, and have the authority and duty to conduct criminal investigations and make arrests. UCPD enjoys a close working relationship with RPD and the Riverside County Sheriff’s Department as well as the local branches of the California Highway Patrol. UCPD personnel regularly meet with agents assigned to the Riverside Field Office of the Federal Bureau of Investigation to exchange information to prevent criminal activity on campus.

The nearest UCPD facility is located approximately 0.3-mile (driving distance) south of the project site at 3500 Canyon Crest Drive, which is an approximately two-minute drive from the project site. The nearest RPD station is located approximately 3.6 miles (driving distance) west of the project site at 4102 Orange Street, which is an approximately nine-minute drive from the project site.¹

¹ “Driving distance” refers to the shortest distance a vehicle could travel to the project site. Time and distance are based on Google Maps input, which is a conservative estimation because emergency vehicles can reach a speed greater than the speed limit, use traffic signal preemption, and have roadway priority. The fastest time was used when there were multiple route options available.

Schools

The nearest K-12 schools to the project site include the REACH Leadership STEAM Academy (approximately 500 feet southwest of the project site), Highland Elementary School (approximately 0.3 mile northeast of the project site), and the University Heights Middle School (approximately 0.4 mile northwest of the project site).

Parks and Recreational Facilities

The nearest parks and recreational facilities to the project site include Highland Park (approximately 0.3 mile to the northeast), Patterson Park (approximately 1.0 mile to the southwest), Islander Park (approximately 1.1 miles to the southeast), and the Stratton Recreation Center (approximately 1.6 miles to the southwest).

Libraries

The closest City library facility to the project site is the SPC Jesus S. Duran Eastside Library, located at 4033 Chicago Avenue, approximately 1.5 miles southwest of the project site.

4.15.3 Regulatory Framework

Federal

Occupational Safety and Health Administration

The Federal Occupational Safety and Health Administrations (OSHA) as well as California OSHA (Cal/OSHA) enforce the provisions of the federal and State Occupational Safety and Health Acts, respectively, which collectively require safety and health regulations for construction under Part 1926 of Title 29 Code of Federal Regulations. The fire-related requirements of the Federal Occupational Safety and Health Act are specifically contained in Subpart F, Fire Protection and Prevention, of Part 1926. Examples of general requirements related to fire protection and prevention include maintaining fire suppression equipment specific to construction on-site; providing a temporary or permanent water supply of sufficient volume, duration, and pressure; properly operating the on-site fire-fighting equipment; and keeping storage sites free from accumulation of unnecessary combustible materials.

Federal Emergency Management Act (FEMA)

FEMA was established in 1979 via executive order and is an independent agency of the federal government. In March 2003, FEMA became part of the U.S. Department of Homeland Security with the mission to lead the effort in preparing the nation for all hazards and effectively manage federal response and recovery efforts following any national incident. FEMA also initiates proactive mitigation activities, trains first responders, and manages the National Flood Insurance Program and the U.S. Fire Administration.

The Disaster Mitigation Act of 2000

The Disaster Mitigation Act of 2000 requires a State mitigation plan as a condition of disaster assistance. There are two different levels of State disaster plans: "Standard" and "Enhanced." States that develop an approved Enhanced State Plan can increase the amount of funding available through the Hazard Mitigation Grant Program. The Act has also established new requirements for local mitigation plans.

Federal Fire Prevention and Control Act of 1974

The National Fire Incident Reporting System (NFIRS) is a system established by the National Fire Data Center of the United States Fire Administration (USFA) to carry out the intentions of the Federal Fire Prevention and Control Act of 1974. The Act authorizes the USFA to gather and analyze information on the magnitude of the United States' fire problem as well as its detailed characteristics and trends. The Act further authorizes the USFA to develop uniform data reporting methods, and to encourage and assist State agencies in developing and reporting data.

State

Fire Protection

2019 CALIFORNIA STRATEGIC FIRE PLAN

The 2019 California Strategic Fire Plan (Fire Plan) is a cooperative effort between the State Board of Forestry and Fire Protection and CAL FIRE. The 2019 Fire Plan reflects a focus on fire prevention, suppression activities, and natural resource management to maintain the State's forests as a resilient carbon sink to meet California's climate change goals and to serve as important habitat for adaptation and mitigation. Major components center on accomplishing the following goals by 2023 - improve core capabilities; enhance internal operations; ensure health and safety; and build an engaged, motivated, and innovative workforce (CAL FIRE 2019).

STATE HAZARD MITIGATION PLAN

The State Hazard Mitigation Plan (SHMP) intends to significantly reduce deaths, injuries, and other losses attributed to natural and human-caused hazards in California. The SHMP provides guidance for hazard mitigation activities emphasizing partnerships among local, State, and federal agencies as well as the private sector. The SHMP is federally required under the Disaster Mitigation Act of 2000 in order for the State to receive federal funding for disaster assistance. The California Office of Emergency Services prepares the California SHMP, which identifies hazard risks and includes a vulnerability analysis and a hazard mitigation strategy (California Office of Emergency Services 2018).

CALIFORNIA FIRE AND BUILDING CODES (2022)

The California Fire Code is Part 9 of California Code of Regulations (CCR) Title 24. It establishes the minimum requirements consistent with nationally recognized good practices to safeguard public health, safety, and general welfare from the hazards of fire, explosion, or dangerous conditions in new and existing buildings, structures, and premises and to provide safety and assistance to firefighters and emergency responders during emergency operations. It is the primary means for authorizing and enforcing procedures and mechanisms to ensure the safe handling and storage of any substance that may pose a threat to public health and safety. The California Fire Code regulates the use, handling, and storage requirements for hazardous materials at fixed facilities. The California Fire Code and the California Building Code use a hazard classification system to determine what protective measures are required to ensure fire safety and protect lives.

These measures may include construction standards, separations from property lines, and specialized equipment. To ensure these safety measures are met, the California Fire Code employs a permit system based on hazard classification. The provisions of this code apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location,

maintenance, removal, and demolition of every building or structure or any appurtenances connected or attached to such building structures throughout California.

More specifically, California Fire Code (Part 9) Chapter 7 addresses fire-resistances-rated construction; California Building Code (Part 2) Chapter 7A addresses materials and construction methods for exterior wildfire exposure; California Fire Code Chapter 8 addresses fire-related interior finishes; California Fire Code Chapter 9 addresses fire protection systems; and California Fire Code Chapter 10 addresses fire-related means of egress, including fire apparatus access road width requirements. California Fire Code Section 4906 also contains regulations for vegetation and fuel management to maintain clearances around structures as well as design criteria for specific types of fire-resistant and non-fire-resistant vegetation. These requirements establish minimum standards to protect buildings in Fire Hazard Severity Zones within State Responsibility Areas and wildland-urban interface fire areas. This code includes provisions for ignition-resistant construction standards for new buildings.

California Fire Code Chapter 33, *Fire Safety During Construction and Demolition*, also includes requirements for a construction pre-fire plan, training, fire protection devices, regulations for refueling, fire clearances, precautions against fire (including prohibitions on smoking), on-site firewatch, and regulations for welding and electrical wiring.

CALIFORNIA PUBLIC RESOURCES CODE

The California Public Resources Code (PRC) includes fire safety regulations that restrict the use of equipment that may produce a spark, flame, or fire; require the use of spark arrestors on construction equipment that use an internal combustion engine; specify requirements for the safe use of gasoline-powered tools in fire hazard areas; and specify fire suppression equipment that must be provided on-site for various types of work in fire-prone areas.

These regulations include the following:

- Earthmoving and portable equipment with internal combustion engines must be equipped with a spark arrestor to reduce the potential for igniting a wildland fire (PRC Section 4442)
- Appropriate fire suppression equipment must be maintained during the highest fire danger period, from April 1 to December 1 (PRC Section 4428)
- On days when a burning permit is required, flammable materials must be removed to a distance of 10 feet from any equipment that could produce a spark, fire, or flame, and the construction contractor must maintain the appropriate fire suppression equipment (PRC Section 4427)
- On days when a burning permit is required, portable tools powered by gasoline-fueled internal combustion engines must not be used within 25 feet of any flammable materials (PRC Section 4431)

CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

In accordance with CCR Title 8, Section 1270, *Fire Prevention*, and Section 6773, *Fire Protection and Fire Equipment*, the California Occupational Safety and Health Administration has established minimum standards for fire suppression and emergency medical services. The standards include guidelines on the handling of highly combustible materials, fire hose sizing requirements, restrictions on the use of compressed air, access roads, and the testing, maintenance and use of all firefighting and emergency medical equipment.

For additional information on fire-safety related regulations, please see Section 4.20, *Wildfire*, of this EIR.

Police Protection

CALIFORNIA CONSTITUTION ARTICLE XIII, SECTION 35

Section 35 of Article XIII of the California Constitution was adopted by the voters in 1993 under Proposition 172. Proposition 172 directed the proceeds of a 0.50-percent sales tax to be expended exclusively for local public safety services. California Government Code Sections 30051 through 30056 provide rules to implement Proposition 172. Public safety services include police protection. Section 30056 provides that cities are not allowed to spend less of their own financial resources on their combined public safety services in any given year compared to the 1992-1993 fiscal year. Therefore, an agency is required to use Proposition 172 to supplement its local funds used on police protection and other public safety services. Section 35(a)(2) provides: "The protection of public safety is the first responsibility of local government and local officials have an obligation to give priority to the provision of adequate public safety services." In *City of Hayward v. Board of Trustees of California State University* (2015) 242 Cal. App. 4th 833, the court found that Section 35 of Article XIII of the California Constitution requires local agencies to provide public safety services, including police protection, and that it is reasonable to conclude that the City will comply with that provision to ensure that public safety services are provided.

CALIFORNIA PENAL CODE

All law enforcement agencies in California are organized and operated in accordance with the applicable provisions of the California Penal Code. This code sets forth the authority, rules of conduct, and training for peace officers. Under State law, all sworn municipal and county officers are State peace officers.

Public Schools

CALIFORNIA EDUCATION CODE

Educational services and school facilities are subject to the rules and regulations of the California Education Code, the California Department of Education (CDE) and governance of the State Board of Education (CBE) (California Government Code Section 33000, et seq.). The CDE is the government agency responsible for public education throughout the State. With the State Superintendent of Public Instruction, the CDE is responsible for enforcing education law and regulations and for continuing to reform and improve public elementary school, secondary school, childcare programs, adult education, and preschool programs. The CDE also oversees funding and student testing and achievement levels for all State schools.

ELEMENTARY AND HIGH SCHOOL SITE SELECTION REGULATIONS

The site selection of elementary and high schools (including charter schools) is subject to Title 5 of the California Code of Regulations (CCR), including the following sections: section 14010(q) and (p) require districts to consider environmental factors including light, wind, noise, aesthetics, and air pollution as well as fire protection, police protection, public transit, and trash disposal in their site selection process. Section 14030 requires safety and vehicle circulation considerations. CCR Title 24, Section 1.9.2 includes additional safety requirements for proposed school buildings.

OPEN ENROLLMENT POLICY (CALIFORNIA EDUCATION CODE SECTIONS 48350, ET SEQ.)

The open enrollment policy is a State-mandated policy that enables students located in the RUSD to apply to any regular, grade-appropriate district schools with designated “open enrollment” seats. Open enrollment seats are granted through a transfer application process that is completed before the school year begins. Under the Open Enrollment Policy, students living in a particular school’s attendance area are not displaced by a student requesting an open enrollment transfer to that school.

DISTRICT OF CHOICE PROGRAM

The District of Choice Program allows local educational agencies to accept student transfers under the “District of Choice” provisions. A District of Choice must determine the number of transfer students it is willing to accept and must ensure students are admitted and selected through an unbiased process. The admissions process prohibits an evaluation of whether or not the student should be enrolled based on academic or athletic performance, physical conditions, or proficiency in English. A District of Choice must meet State and local requirements concerning student registration and data reporting. RUSD is designated as a District of Choice for the 2022-2023 school year. The District of Choice Program has been repealed by the California Education Code Title 2, Division 4, Part 27, Chapter 2, Article 7, Section 48315. The program shall become fully repealed January 1, 2029.

SENATE BILL 50 (LEROY F. GREENE SCHOOL FACILITIES ACT OF 1998)

The Leroy F. Greene School Facilities Act of 1998, or Senate Bill (SB) 50, restricts the ability of a local agency to deny project approvals on the basis that public school facilities (classrooms, auditoriums, etc.) are inadequate. Under the provisions of SB 50, school districts may collect fees, at the time building permits are issued, to offset the costs associated with increasing school capacity as a result of development. These fees are used by the local schools to accommodate the new students added by the project, thereby reducing potential impacts on schools. Payment of school fees is considered full and complete mitigation of those projects’ impacts related to the provision of school facilities. According to Section 65995(h), the payment of statutory fees is “deemed to be full and complete mitigation of the impacts of any legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property, or any change in governmental organization or reorganization...on the provision of adequate school facilities.” RUSD and other school districts in Riverside County collect fees from new residential and commercial/industrial development based on square footage.

ASSEMBLY BILL 16

In 2002, Assembly Bill 16 created the Critically Overcrowded School Facilities program, which supplements the new construction provisions within the School Facilities Program (SFP). SFP provides State funding assistance for two major types of facility construction projects: new construction and modernization. The Critically Overcrowded School Facilities program allows school districts with critically overcrowded school facilities, as determined by the CDE, to apply for new construction projects in advance of meeting all SFP new construction program requirements. Districts with SFP new construction eligibility and school sites included on a CDE list of source schools may apply.

Parks and Recreation

There are no applicable State regulations regarding parks and recreation that would be applicable to the proposed project. The Quimby Act, set forth in California Government Code Section 66477 et seq., requires developers of residential uses to dedicate land or pay in-lieu fees for park or recreational purposes. Because the proposed project does not involve residential uses, the Quimby Act does not apply.

University of California, Riverside

Memorandum of Understanding with University of California Office of the President

As a public university, UCR falls under the authority of the California Office of the State Fire Marshal (OSFM). The UC system maintains a Memorandum of Understanding (MOU) with the OSFM to allow UC personnel to serve as local campus fire marshals, deputy fire marshals, and fire inspectors. Both the Campus Fire Marshal and Deputy Fire Marshal are trained and certified through OSFM's Designated Campus Fire Marshal (DCFM) program. The Campus Fire Marshal oversees Title 24 construction project code compliance work, including fire protection consultation on campus projects, engineering design criteria for fire and life safety, code interpretations, and recommendations to UCR Planning, Design & Construction staff on campus building construction and renovation activities. The Campus Fire Marshal reviews and approves all construction plans and inspects buildings during construction/renovation, including acceptance tests for fire alarms, sprinkler systems, and other fire safety systems.

The Deputy Fire Marshal oversees the Title 19 inspection program, performing comprehensive fire code compliance inspections of all campus buildings on an annual basis and monitoring necessary follow-up activities. The Deputy Fire Marshal also assists with the Title 24 program. Both the Campus Fire Marshal and Deputy Fire Marshal also assist UCR Housing Services with conducting annual fire drills for campus residential facilities to provide general guidance on the California Fire Code to the campus community. In the event of a fire requiring a formal cause and origin or criminal investigation, the Campus Fire Marshal coordinates with sworn law enforcement investigators from the Office of the State Fire Marshal, CAL FIRE, and the UCPD.

Memorandum of Understanding with the Riverside Fire Department

UCR and RFD are currently in the process of drafting an MOU for fire protection services. The MOU outlines the roles and responsibilities between UCR and RFD for tasks such as emergency response, fire investigation, management of unsafe structures, plan review, construction inspection, fire and life safety testing and inspection of systems, special events, and fire watch.

UCR Emergency Operations Plan

The UCR Emergency Operations Plan (EOP) is currently being updated. The EOP establishes emergency management tasks, specifies policies and procedures while defining preparedness efforts that align with first responding agencies' protocols, and addresses all-hazard preparedness, prevention, mitigation, and recovery components of emergency management on campus. The EOP includes national and statewide systems, such as the Standardized Emergency Management System and the federal National Incident Management System, which align with California Government Code Section 8607(a) and the Department of Homeland Security's emergency response standards. The EOP also incorporates the Policy on SafeGuard Security and Emergency Management directives,

as described in the UC Facilities Manual (Volume 6: Chapter 4.6 Emergency Preparedness) (University of California Office of the President 2022).

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP does not contain policies or objectives pertaining to public services.

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

Fire Protection

RIVERSIDE MUNICIPAL CODE

Section 16.32.020 of the City's Municipal Code adopts the Uniform Fire Code. This code regulates actions involving hazards related to fire and explosions and recognizes safe practices to reduce hazards that can possibly occur from fire and explosions (City of Riverside 2022a).

CITY OF RIVERSIDE GENERAL PLAN PUBLIC SAFETY ELEMENT

The City's General Plan Public Safety Element provides multiple policies that reduce response times for emergency services and mitigate fire hazards related to urban development. These policies also direct the City to provide outreach and education to the community to increase awareness of fire and crime prevention measures (City of Riverside 2021a).

Police Protection

CITY OF RIVERSIDE GENERAL PLAN PUBLIC SAFETY ELEMENT

The City's General Plan Public Safety Element provides policies that require RPD involvement in the development review process of public areas and encourages the coordination of police services with college and university campus police forces and private security forces (City of Riverside 2021a).

Public Schools

RIVERSIDE UNIFIED SCHOOL DISTRICT LONG RANGE FACILITIES MASTER PLAN

In 2016, the RUSD prepared the Long Range Facilities Master Plan (LRFMP), which is a visioning document to help inform school facility decisions for the following 15 to 20 years. The proposed STEM Education Center would be designed in consideration of guidance principles included in the LRFMP, such as learning environments, space programming, and staffing needs, among others (RUSD 2016).

Parks and Recreation

RIVERSIDE MUNICIPAL CODE

Pursuant to Chapter 16.60 of the Riverside Municipal Code, the City can require four types of park development fees: a Regional/Reserve Fee, Local Fee, Aquatic Facility Fee, and Trail Fee. Generally, the required development fees are paid prior to the issuance of a building permit for new development. Local park development fees are deposited into a Special Capital Improvement Fund for the acquisition and/or development and/or improvement of neighborhood or community parks in general conformance with the priorities established by the City's General Plan (City of Riverside 2022b).

CITY OF RIVERSIDE GENERAL PLAN PARKS AND RECREATION ELEMENT

The City's General Plan envisions a "necklace" of parks and open space that exists on and/or defines the edges of the City with connectivity occurring between these spaces and Riverside's neighborhoods with landscaped parkways and trails accessible to pedestrians and cyclists. The General Plan identifies 18 specific policies to provide access to parks and recreation facilities and services. The City's General Plan Parks and Recreation Element also establishes a standard for developed park acreage of three acres per one thousand residents, which includes one acre of neighborhood parks per 1,000 residents and two acres of community parks per 1,000 residents (City of Riverside 2012).

RIVERSIDE COMPREHENSIVE PARK, RECREATION & COMMUNITY SERVICES MASTER PLAN

The City adopted the Riverside Comprehensive Park, Recreation & Community Services Master Plan in February 2020 (City of Riverside 2020b). The plan serves as a guide and implementation tool for the management and development of parks and recreational facilities and programs for the City. The Riverside Comprehensive Park, Recreation & Community Services Master Plan identifies \$4.2 million in funded projects and nearly \$241 million of unfunded deferred maintenance projects. The City also identified several undeveloped parcels, totaling approximately 350 acres, that are adjacent to existing parks and could be considered for future park development.

RIVERSIDE PACT TRAILS MASTER PLAN

The City adopted the Trails Master Plan in August 2021 (City of Riverside 2021b). The plan proposes and prioritizes new trails and gap closures, addresses integration of trail facilities within the City's on-street active transportation network, and identifies potential funding sources. In the vicinity of the project site, the Trails Master Plan proposes development of an additional segment of the Gage Canal corridor multi-purpose trail that would run from the portion of the Gage Canal adjacent to the proposed STEM Education Center location east along the southern side of Blaine Street and south along the eastern side of Canyon Crest Drive.

4.15.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Public Services to assess the proposed project.

Would the proposed project:

- a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:
 - i. Fire protection?
 - ii. Police protection?
 - iii. Schools?
 - iv. Parks?
 - v. Other public facilities?

Methodology

To evaluate the potential impacts of the proposed project on public services, the population that would be induced by the proposed project, as discussed in Section 4.14, *Population and Housing*, is analyzed in relation to existing service and service standards. Following this, an analysis of whether future demand induced by the proposed project would result in the need for new or physically altered public service facilities is presented.

Project Impacts and Mitigation Measures

Threshold a.i: Would the proposed project result in substantial adverse physical impacts associated with the provision of new or physically altered fire protection facilities, or the need for new or physically altered fire protection facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives?

Impact PS-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN SUBSTANTIAL ADVERSE PHYSICAL IMPACTS ASSOCIATED WITH THE PROVISION OF NEW OR PHYSICALLY ALTERED FIRE PROTECTION FACILITIES OR THE NEED FOR NEW OR PHYSICALLY ALTERED FIRE PROTECTION FACILITIES. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION WOULD BE REQUIRED.

The proposed project includes construction of a STEM Education Center that would serve students in grades 9 through 12 within RUSD's existing service population. Project construction activity would not affect fire protection response times such that new fire protection facilities would be needed because UCR regularly has ongoing construction activity on campus under existing conditions and the project construction would not substantially change these baseline conditions such that current fire response times would be affected. The proposed project would comply with fire safety regulations discussed in Section 4.15.3, *Regulatory Framework*. As discussed in Section 4.14, *Population and Housing*, the proposed project would not directly or indirectly induce growth.

However, the proposed project includes construction of a new structure and would increase occupancy at the proposed location of the STEM Education Center through the introduction of students, faculty, staff, and visitors, which would marginally increase the demand for fire services at the project site as compared to existing conditions. However, the proposed project would be designed to comply with building and fire codes and include appropriate fire safety measures and equipment, including but not limited to, use of fire retardant building materials, inclusion of emergency water infrastructure (fire hydrants and sprinkler systems), installation of smoke detectors and fire extinguishers, emergency response notification systems, and provision of adequate emergency access ways for emergency vehicles. The UCR Fire Marshal would review and approve the project design and circulation plans and conduct an inspection to ensure adequate fire access as well as fire prevention measures are provided in accordance with current California building and fire codes. The UCR campus would also continue to implement its EOP, which addresses the campus community's planned response to emergency access on the campus, and the UCR Fire Marshal and staff would continue to implement campus-wide fire prevention programs. These actions, mandated by State law, would limit the number of incidents requiring the RFD to respond to calls associated with the proposed project, further minimizing additional demand for fire protection services. In addition, relocating a portion of the student population from the former Hyatt Elementary School site to the project site would place them closer in proximity to a fire station (RFD Station 4, approximately 0.8 mile west of the project site and a three-minute drive time) as compared to their current proximity at the Hyatt Elementary School site (RFD Station 14, approximately two miles northeast of this school site and a five-minute drive time). Emergency responders maintain response plans that include use of alternate routes, sirens, and other methods to bypass congestion and minimize response times. California law requires drivers to yield to the right-of-way to emergency vehicles and remain stopped until the emergency vehicle passes. Therefore, the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered fire protection facilities or the need for new or physically altered fire protection facilities in order to maintain acceptable service ratios, response times or other performance objectives. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold a.ii: Would the proposed project result in substantial adverse physical impacts associated with the provision of new or physically altered police protection facilities, or the need for new or physically altered police protection facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives?

Impact PS-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN SUBSTANTIAL ADVERSE PHYSICAL IMPACTS ASSOCIATED WITH THE PROVISION OF NEW OR PHYSICALLY ALTERED POLICE PROTECTION FACILITIES OR THE NEED FOR NEW OR PHYSICALLY ALTERED POLICE PROTECTION FACILITIES. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

The proposed project includes construction of a STEM Education Center that would serve students in grades 9 through 12 within RUSD's existing service population. UCR regularly has ongoing construction activity on campus under baseline conditions; therefore, project construction activities would not affect police protection response times such that new police protection facilities would be needed. In addition, as discussed in Section 4.14, *Population and Housing*, the proposed project would not directly or indirectly induce population growth. However, as discussed under Impact PS-1, the proposed project includes construction of a new structure and would increase occupancy at the proposed location of the STEM Education Center through the introduction of students, faculty, staff, and visitors, which would marginally increase the demand for police protection services at the site compared to existing conditions. Nevertheless, the project site is sufficiently served by existing UCPD personnel, which provide police protection services during and after school hours. The project site would be located approximately 870 feet from the UCPD station and thus would not be located in a remote area such that response times would be substantially lengthened to the extent a new police protection facility would be necessary. The proposed project also includes safety and security features, including perimeter fencing, cameras, alarm system, and exterior building lighting, that would minimize the need for police protection services. UCPD has a close working relationship with RPD, the Riverside County Sheriff's Department, and the local branches of the California Highway Patrol. UCPD personnel also regularly meet with agents assigned to the Riverside Field Office of the Federal Bureau of Investigation to exchange information to prevent criminal activity on campus. As such, existing UCPD and RPD facilities would be sufficient to serve the project site. Therefore, the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered police protection facilities or the need for new or physically altered police protection facilities in order to maintain acceptable service ratios, response times or other performance objectives. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold a.iii: Would the proposed project result in substantial adverse physical impacts associated with the provision of new or physically altered schools, or the need for new or physically altered schools, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios or other performance objectives?

Impact PS-3 THE PROPOSED PROJECT WOULD NOT RESULT IN SUBSTANTIAL ADVERSE PHYSICAL IMPACTS ASSOCIATED WITH THE PROVISION OF NEW OR PHYSICALLY ALTERED SCHOOLS OR THE NEED FOR NEW OR PHYSICALLY ALTERED SCHOOLS. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION WOULD BE REQUIRED.

The proposed project involves the construction of a new school, the environmental impacts of which are analyzed throughout this EIR. The proposed project would maintain existing service ratios for RUSD schools. No further impacts related to the provision of new or physically altered schools would occur beyond those disclosed throughout this EIR. Therefore, impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold a.iv: Would the proposed project result in substantial adverse physical impacts associated with the provision of new or physically altered parks, or the need for new or physically altered parks, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios or other performance objectives?

Impact PS-4 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN SUBSTANTIAL ADVERSE PHYSICAL IMPACTS ASSOCIATED WITH THE PROVISION OF NEW OR PHYSICALLY ALTERED PARKS OR THE NEED FOR NEW OR PHYSICALLY ALTERED PARKS. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As discussed under Impact PS-1, the proposed project includes the construction of a STEM Education Center that would serve existing students in grades 9 through 12 within RUSD's service population. As discussed in Section 4.14, *Population and Housing*, the proposed project would not directly or indirectly induce population growth that would place additional demand on existing parks and recreational facilities. The proposed project would require the removal of the existing practice fields at the UCR Baseball Complex, which are currently utilized by UCR as well as by the City, through a joint-use agreement that extends through 2027. The proposed project may begin construction as early as 2026, which would result in early termination of the existing joint-use agreement and the early loss of these fields for the City's recreational use. However, because it is a joint-use facility that is not owned by the City, the approximately 5.65-acre portion of the project site owned by UCR (Assessor's Parcel Number 250-220-008) is not included in the City's calculation of parkland acreage for the purpose of determining whether the City is meeting its adopted parkland acreage standards for community parks and neighborhood parks. This parcel is also not included in the City's needs analysis for baseball and softball fields, which only considers City-owned

facilities (not joint-use facilities) when identifying an existing deficit in large regulation and small regulation softball fields (City of Riverside 2020b). In addition, the approximately 0.26-acre portion of the project site owned by the City (Assessor's Parcel Number 250-220-003) that currently contains the Sprint Cell Tower is identified as a Special Use Facility, which is also not included in the City's calculation of parkland acreage for the purpose of determining whether the City is meeting its adopted standards (City of Riverside 2020b). Therefore, the proposed project would not adversely affect the City's ability to achieve its parkland acreage standards or meet its baseball and softball fields needs because the recreational fields present on the project site are not currently counted in the calculations used to determine the City's parkland acreage per resident and recreational facility needs. Furthermore, UCR's 2021 LRDP includes the development of an additional 97,740 gross square feet of indoor recreation space and four new outdoor fields to be built by academic year 2035/2036, the environmental impacts of which have already been analyzed in the 2021 LRDP EIR (UCR 2021a and 2021b). As part of this, the currently under-construction North District Development Phase 2 Project, located across Canyon Crest Drive from the project site, includes additional recreational fields. Accordingly, the reduction in outdoor recreation space resulting from the proposed project would be temporary.

As shown in Figure 2-4 in Section 2, *Project Description*, the proposed project also would not encroach or interfere with the City's planned Gage Canal Multipurpose Recreational Trail, which would travel adjacent to the Gage Canal from Palmyrita Street to the Riverside Sports Complex located on and adjacent to the project site, where it would terminate just north of Blaine Street (City of Riverside 2021c). Similarly, the proposed project would not encroach or interfere with the City's additional planned multipurpose trail segment that would run from the portion of the Gage Canal adjacent to the proposed STEM Education Center location east along the southern side of Blaine Street and south along the eastern side of Canyon Crest Drive (City of Riverside 2021b). The secondary egress driveway on Blaine Street would allow buses and UCR service vehicles to either turn left (west) or right (east), depending on their subsequent destinations. Buses and service vehicles turning out of this driveway would traverse the Gage Canal Multipurpose Recreational Trail's proposed crossing at Blaine Street and the proposed additional trail segment along Blaine Street. Bus activity would primarily occur on weekdays as buses depart from morning drop-off at approximately 8:00 a.m. (10 buses), mid-day drop-off/pick-up at approximately 12:30 p.m. (10 buses), and afternoon pick-up at approximately 3:30 p.m. (10 buses). This limited level of infrequent vehicle traffic over the proposed trails would not substantially affect trail users' ability to utilize these trails. In addition, drivers of school buses and service vehicles would be required to comply with all traffic safety measures installed as part of the trail's Blaine Street crossing, such as crosswalk signs and devices.

Thus, for the reasons discussed above, the conversion of the project site from open recreational fields to the proposed STEM Education Center would not result in the need for new or physically altered recreational facilities. As such, the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered parks, or the need for new or physically altered parks, the construction of which could cause significant environmental impacts, in order to maintain acceptable performance objectives. Impacts would be **less than significant**. For a full discussion of parks and recreational facilities, refer to Section 4.16, *Recreation*.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold a.v.: Would the proposed project result in substantial adverse physical impacts associated with the provision of new or physically altered public facilities, or the need for new or physically altered public facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives?

Impact PS-5 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN SUBSTANTIAL ADVERSE PHYSICAL IMPACTS ASSOCIATED WITH THE PROVISION OF NEW OR PHYSICALLY ALTERED PUBLIC FACILITIES OR THE NEED FOR NEW OR PHYSICALLY ALTERED PUBLIC FACILITIES. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION WOULD BE REQUIRED.

The proposed project includes the construction of a STEM Education Center that would serve students in grades 9 through 12 within RUSD's existing service population. As discussed in Section 4.14, *Population and Housing*, the proposed project would not directly or indirectly induce population growth. The proposed project thus would not increase the demand on libraries or other public facilities beyond existing conditions. Therefore, the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered public facilities or the need for new or physically altered public facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.15.5 Cumulative Impacts

The cumulative setting for public services is the geographic area of the City and Riverside County. This geographic extent was selected because City and County public service facilities exist and serve the project site and areas surrounding the project site.

The RFD has an existing need for new equipment and potential additional facilities (UCR 2021a). Any future project involving a new fire station or expansion of an existing station would undergo environmental review pursuant to CEQA when project-specific details are known. There are currently no specific plans for a new RFD facility; in the event a new fire station is required, it would likely occur on an infill lot because most of the cumulative setting is highly urbanized. Furthermore, population projections considered in the City and County's general plans have informed the potential need for expansion of fire services throughout the cumulative setting. Based on such acknowledgement of, and planning for, future growth in the City and County, cumulative impacts related to new or physically altered fire protection facilities would be **less than significant**.

The need for police services in the cumulative setting would increase in association with the anticipated population increase on the UCR campus and in the City and County. Increased police services would be required for additional routine services, patrols, and to maintain public safety

throughout the cumulative setting. To maintain adequate levels of police protection to serve an increased population, expanded or additional police facilities may be required. The City plans to construct a new RPD headquarters to replace the existing downtown facility (UCR 2020). In addition, planning for new or physically altered police facilities is based on population projections included in the City and County's general plans. As such, the development of new or expanded police facilities is already accounted for by the City and County. Such facilities are subject to project-specific environmental review and all applicable federal, State, and local regulations that would reduce environmental impacts associated with facility development or expansion. Therefore, cumulative impacts related to new or physically altered police protection facilities would be **less than significant**.

The need for schools in the cumulative setting would increase in association with the anticipated population increase in the City and County. However, cumulative residential, commercial, and industrial development would be required to pay developer fees to fund the construction of school facilities to accommodate students generated from new development projects. Pursuant to Section 65995(3)(h) of the California Government Code (SB 50), the payment of statutory fees "...is deemed to be full and complete mitigation of the impacts of any legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property, or any change in governmental organization or reorganization." Thus, payment of developer fees is considered full mitigation for a project's impacts under CEQA. In addition, new or expanded school facilities would undergo project-specific environmental review to identify and minimize environmental impacts. Therefore, cumulative impacts related to new or physically altered school facilities would be **less than significant**.

It is anticipated that, to accommodate future cumulative demand for park and recreational facilities, new park and recreational facilities would be developed and constructed throughout the region. The City has an adopted standard of two acres of community parks and one acre of neighborhood parks per 1,000 residents. In addition, the parkland acreage ratio recommended in the Comprehensive Park, Recreation, & Community Services Master Plan is five acres per 1,000 residents. Currently, the City has approximately 0.69 acre of neighborhood parks and 1.14 acres of community parks per 1,000 residents, and 2.82 acres of developed parks per 1,000 residents, which does not meet the City's goals. The City is also expected to experience deficits in soccer, football, baseball, softball, and rugby facilities by 2030 (City of Riverside 2020b). As such, cumulative impacts to parks would be significant. However, as discussed under Impact PS-4, the proposed project would not induce any population that would contribute to the increased demand for parks and recreational facilities. Although the proposed project would remove existing open recreational fields, it would not result in inconsistency with City parkland goals because the project site is not included in the City's calculation of parkland acreage or its needs analysis for recreational facilities (City of Riverside 2020b). In addition, UCR's 2021 LRDP includes the development of an additional 97,740 gross square feet of indoor recreation space and four new outdoor fields to be built by academic year 2035/2036, the environmental impacts of which have already been analyzed in the 2021 LRDP EIR (UCR 2021a and UCR 2021b). In addition, the environmental impacts of buildout of UCR's North District Development Phase 2 east of Canyon Crest Drive, which may include recreational facilities, would be subject to project-specific environmental review to identify and minimize environmental impacts. Therefore, the proposed project's contribution to cumulative impacts to parks would **not be cumulatively considerable (less than significant)**.

The demand for libraries in the cumulative setting would increase in association with the anticipated population increase in the City and County. Population projections considered in the City's and

County’s general plans have informed the potential need for expansion of libraries throughout the cumulative setting. There are currently no specific plans for a new library; in the event a new library is proposed, it would likely occur on an infill lot because most of the cumulative setting is highly urbanized. Development of libraries are subject to project-specific environmental review and all applicable federal, State, and local regulations that would reduce environmental impacts associated with facility development or expansion. Therefore, cumulative impacts related to new or physically altered libraries would be **less than significant**.

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4.16 Recreation

4.16.1 Introduction

This section describes the recreational resources on and in the area surrounding the project site and addresses the potential for implementation of the proposed project to impact recreational facilities.

4.16.2 Existing Conditions

Regional Setting

Federal and State

There are four National Park and Recreation areas in the region, including Joshua Tree National Park, the Santa Rosa and San Jacinto Mountains National Monument, the San Bernardino National Forest, and the Cleveland National Forest. The closest federal park lands to the project site are in the San Bernardino National Forest, approximately 20 miles northeast of the project site.

The California Department of Parks and Recreation manages and operates four State parks and two State Recreation Areas in Riverside County (County) (California Department of Parks and Recreation 2022):

- California Citrus State Historic Park
- Lake Perris State Recreation Area
- Mount San Jacinto State Park
- San Timoteo Canyon Park Property
- Indio Hills Palms Park Property
- Salton Sea State Recreation Area

The nearest State park is California Citrus State Historic Park, approximately eight miles southwest of the project site. This park has a museum and a visitor center, which provides ticketed tours of the adjacent citrus grove, subject to reservations. The Citrus State Park can also host weddings and special events, subject to a reservation.

Riverside County

The Riverside County Regional Park and Open Space District (RPOSD) currently maintains 35 regional parks, encompassing roughly 22,300 acres (County of Riverside 2015). In addition, the RPOSD maintains 27 neighborhood and regional parks occupying approximately 71,700 acres of land that includes 150 miles of multi-purpose recreational trails, seven archaeological sites, 16 wildlife reserves, and natural areas. Furthermore, the RPOSD operates one boxing facility, manages four nature centers, patrols six historic sites, and provides annual interpretive programs (County of Riverside 2015). The nearest County park to the project site is the Box Springs Mountain Reserve, located approximately 2.3 miles to the east, which consists of 3,400 acres of land with several miles of multi-use trails (County of Riverside 2020). The system includes a wide variety of formal and informal trails.

There are 150 miles of hiking, biking, and equestrian trails in the County. The County's General Plan includes a trail system to provide connectivity among various existing recreational areas and regional trails; it also has policies to ensure coordination of trails with future development. Regional trails are the primary long-distance trails in Riverside County and are usually designed to link communities, regional parks, and open space areas (County of Riverside 2015).

City of Riverside

The Riverside Park System includes nearly 2,942 acres of developed and undeveloped park land, including approximately 226 acres of neighborhood parks and approximately 370 acres of community parks (City of Riverside 2020a). The City has 59 developed and natural parks totaling approximately 2,592 acres and undeveloped park land totaling approximately 350 acres. Parks in the City system include pocket parks, neighborhood parks, community parks, regional parks, and joint-use and special-use facilities. Numerous recreational opportunities are available across the various park types, including active sports fields, playgrounds, recreation centers, passive recreation amenities, and access to 12 community centers, three senior centers, eight swimming pools (including one joint-use pool), 23.7 miles of trails, and 94.5 miles of bike lanes (City of Riverside 2020a). The City also maintains facility joint-use agreements with local school districts, Riverside City College, and UCR (for the Riverside Sports Complex).

The nearest parks and recreational facilities to the project site include Highland Park (approximately 0.3 mile to the northeast), Patterson Park (approximately 1.0 mile to the southwest), Islander Park (approximately 1.1 miles to the southeast), and the Stratton Recreation Center (approximately 1.6 miles to the southwest).

The City also operates 23.7 miles of multi-purpose recreational trails surfaced with stabilized decomposed granite for equestrian, biking, hiking, and pedestrian use. The nearest of these trails is in Sycamore Canyon Wilderness Park, approximately two miles south of the project site. Other signature trails include those at Frank A. Miller Mount Rubidoux Memorial Park (approximately 3.4 miles west of the project site), the park loop trail at Islander Park (approximately 1.1 miles southeast of the project site), and the Gage Canal Trail, which follows the historic Gage Canal between Arlington Boulevard and Central Avenue (City of Riverside 2016).

There are 17 miles of Class I bikeways that provide travel on a paved right-of-way completely separated from any street or highway. There are an additional 26.4 miles of Class I bikeways on non-standard trails (City of Riverside 2016). The City is also developing the Gage Canal Multipurpose Recreational Trail, which will be a two-mile Class I multi-use bikeway traveling adjacent to the Gage Canal from Palmyrita Street to the Riverside Sports Complex (City of Riverside 2021a). The City also maintains 101.5 miles of Class II bikeways, often referred to as bike lanes, provided as striped and stenciled lanes for one-way travel on a street or highway. The City does not contain Class III bikeways, which are shared-use lanes with motor vehicle traffic and identified only by signage (City of Riverside 2016).

Riverside has two official off-street bike paths: the Santa Ana River Trail and Rosanna Scott Memorial Bicycle Trail along Victoria Avenue, a tree-lined parkway with parallel bicycle and equestrian paths. The Rosanna Scott Memorial Bicycle Trail is listed on the National Register of Historic Places and connects multiple schools and neighborhoods, parts of which serve as part of the Safe Route to School program. The path gives way to orange groves as it exits the residential neighborhoods and connects with multiple on-street bicycle facilities (County of Riverside 2018).

Campus and Project Site Setting

The UCR campus includes a variety of parks and recreational facilities. The UCR Botanic Gardens is an approximately 40-acre “living plant museum” in the southeastern area of East Campus at the foothills of the Box Springs Mountains (UCR 2022a). The campus also has seven outdoor recreation fields, the 155,000-square-foot Student Recreation Center, the UCR Baseball Complex (also known as the Riverside Sports Complex), the Amy S. Harrison Field (softball), a track facility, a long-distance running track course, the UCR Soccer Stadium, and the Johnson Family Practice Center. UCR has a National Collegiate Athletic Association Division I program and includes intramural sports and club sports (UCR 2021a).

In addition, a fabric of outdoor malls, courtyards, gathering spaces and pathways weaves together the different precincts of the UCR campus, mostly on the East Campus, making up the UCR campus open-space network. The original core of the campus features a clear organization of linear malls, which constitute UCR’s primary and defining open space. The southeastern East Campus contains the Open Space Reserve, which is largely preserved as a natural habitat. West Campus does not have a large open-space network, although there are some common recreational areas in the International Village apartments.

Class II bike facilities that pass through or near the UCR campus include protected two-way cycle tracks along portions of University Avenue and Canyon Crest Drive. Several Class II bike facilities also pass through or near the UCR campus along portions of Iowa Avenue, Canyon Crest Drive, Watkins Drive, Blaine Street/3rd Street, Linden Street, University Avenue, Big Springs Road, Martin Luther King Boulevard, Aberdeen Drive, and Campus Drive. The City’s Bicycle Master Plan proposes Class II bicycle lanes near the UCR campus along Chicago Avenue from Blaine Street to Le Conte Drive (City of Riverside 2020b). Information on the City and campus bicycle network is further discussed in Section 4.17, *Transportation*.

The project site currently contains an open recreational field with two baseball diamonds, which serve as practice fields, and is part of the Riverside Sports Complex. Table 4.16-1 provides a summary of current usage of the open recreation field.¹

¹ UCR Direction of Recreation Lindy Fenex noted the current usage of the open recreation field is closely aligned with field usage prior to the COVID-19 pandemic; therefore, the current field usage is appropriate to utilize as baseline conditions.

Table 4.16-1 Existing Open Recreation Field Usage

Day of the Week	Field Use	Time of Use
Monday	Open Recreation	8:00 a.m. – 4:00 p.m.
	UCR Intramural Sports	4:30 p.m. – 11:00 p.m.
Tuesday	Open Recreation	8:00 a.m. – 4:00 p.m.
	Youth Soccer Camp	3:00 p.m. – 6:00 p.m.
	UCR Club Sport Practices	4:30 p.m. – 11:45 p.m.
Wednesday	Open Recreation	8:00 a.m. – 4:00 p.m.
	City Softball	4:30 p.m. – 11:45 p.m.
Thursday	Open Recreation	8:00 a.m. – 4:00 p.m.
	Youth Soccer Camp	3:00 p.m. – 6:00 p.m.
	UCR Club Sport Practices	4:30 p.m. – 11:45 p.m.
Friday	Open Recreation	8:00 a.m. – 4:00 p.m.
	City Softball	4:30 p.m. – 11:45 p.m.
Saturday	Youth Soccer Camp	9:00 a.m. – 12:00 p.m.
	UCR Club Sports Events and Practices	Times vary by sport and season
Sunday	UCR Club Sports Events and Practices	Times vary by sport and season

Source: Fenex 2022a; Fenex 2022b

Class II bikeways are located along the project site frontages on Blaine Street and Canyon Crest Drive. In addition, the City’s planned Gage Canal Multipurpose Recreational Trail would extend from Palmyrita Avenue and terminate at Blaine Street immediately adjacent to the project site (City of Riverside 2021a).

4.16.3 Regulatory Framework

Federal

There are no applicable federal regulations regarding recreational facilities that would be applicable to the proposed project.

State

There are no applicable State regulations regarding parkland and recreational resources that would be applicable to the proposed project. UCR is not subject to State Quimby Act requirements because it is not a local government entity.

University of California

Office of the President Policies and Procedures

The University of California Office of the President (UCOP) establishes systemwide policies and procedures that guide various operational and functional areas. Systemwide policies are guiding principles that express the institutional culture, goals, and philosophy. Policies promote consistency and operational efficiency and enhance the University of California’s mission. Procedures are step-by-step descriptions of the tasks required to support and carry out organizational policies.

Procedures articulate the process for accomplishing controls, documenting actions accomplished in a defined order, and ensuring the consistent and repetitive approach to achieve control activities (UCOP 2020a). The UCOP Facilities and Resources policies and procedures establish requirements for the maintenance of real property and equipment (UCOP 2021).

Office of the President Facilities Manual

UCOP Facilities Manual Volume 6, “Plant Operations and Maintenance,” establishes operation and maintenance policies for the University of California (UCOP 2020b). Maintenance is defined as the upkeep of property, machinery, systems, and facilities, including buildings, utility infrastructure, roads, and grounds. Maintenance consists of those activities necessary to keep facilities and systems operational and in good working order; it consists of the preservation, but not the improvement, of buildings and grounds or other real property improvements and their components.

University of California, Riverside

UCR Recreation Center Fees

The UCR tuition fees includes recreation center fees that helps pay the cost of construction, maintenance, and operation of the Student Recreation Center and a recreation expansion fee that helps pay the cost of the expanded facility that accommodates the growing student population (UCR 2022b).

2021 Long Range Development Plan

The 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space and infrastructure on the UCR campus. The UCR 2021 LRDP also includes objectives and policies relevant to recreational facilities that are applicable to the proposed project, which are summarized in Table 4.16-2.

Table 4.16-2 UCR 2021 LRDP Objectives and Policies Related to Recreational Facilities

Objective	Policy
Open Space	
Preserve and enhance major open spaces (malls, courtyards, streetscapes, quads, and pedestrian corridors), which contribute to the unique character and beauty of UCR.	Limit future campus development from intruding into major open spaces as defined by the Open Space Framework Diagram, while allowing for supporting elements like individual project site design, landscaping, signage, etc. but ensuring those are sensitively integrated.
Mobility	
Invest in infrastructure to increase bicycle use and support other active transportation modes to integrate desired routes with the campus’ and City’s circulation framework.	Support and facilitate City-led initiatives to extend bikeways to campus from every direction, including routes proposed along Canyon Crest Drive, Martin Luther King Boulevard, and the Gage Canal. Provide adequate support amenities to facilitate and encourage the use of bicycles and other alternative transportation modes.
Emphasize safe and pleasing passage for pedestrians and bicycle riders through the careful, continued development, and integration of the campus’ multi-modal circulation framework and its extensions into the immediate community.	Implement University policies to improve pedestrian safety and encourage social interaction in zones of high pedestrian activity.

Source: UCR 2021b

Joint-Use Agreement for UCR Baseball Complex and Additional Facilities

On March 4, 1975, the Regents of the University of California (Regents) granted a non-exclusive license to the City for use of the UCR Baseball Complex and Additional Facilities, which include the existing open recreation field located on the project site. The non-exclusive license was amended three times in 1988, 1990, and 2005 to: (1) reflect the City’s commitment to make certain improvements to the UCR Baseball Complex and refine certain terms, (2) allow the use of the City’s electronic scoreboard sign installed at the UCR Baseball Complex, and (3) revise the rights and responsibilities of each party related to use of the facilities, respectively. The non-exclusive license, as amended, is herein referred to as the “joint-use agreement.” The joint-use agreement grants exclusive use of the UCR Baseball Complex to the Regents (with the exception of one annual City fireworks show and up to three annual City-sponsored events) and allocates use of the Additional Facilities (including the project site) 50 percent to the Regents and 50 percent to the City between the hours of 8:00 a.m. and 12:00 a.m. each month. The term of the joint-use agreement was set at 25 years from September 16, 1977 with automatic renewal for an additional 25 years unless the City decided not to renew the license. Thus, the existing joint-use agreement between the Regents and the City for use of the open recreation field will terminate on September 16, 2027. However, the Regents have the right to terminate the license upon giving the City 36 months written notice of their intention to do so. In the event of such termination, the Regents must return to the City two percent of the total monies paid by the City for this license (Regents and Riverside Unified School District 1975, 1988, 1990, and 2005). The Regents submitted written notice to the City of their intention to terminate the existing joint-use agreement on February 2, 2023.

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

Riverside Municipal Code

As directed in Chapter 16 of the City’s Municipal Code, the City can require four types of park development fees: a Regional/Reserve Fee, Local Fee, Aquatic Facility Fee, and Trail Fee. Generally, the required development fees are paid prior to the issuance of a building permit for new development. Local park development fees are deposited into a Special Capital Improvement Fund for the acquisition and/or development and/or improvement of neighborhood or community parks in general conformance with the priorities established by the City’s General Plan (City of Riverside 2022). Neither UCR nor RUSD is subject to payment of park development fees.

City of Riverside General Plan

PARK AND RECREATION ELEMENT

The City’s General Plan envisions a “necklace” of parks and open space that exists on and/or defines the edges of the City with connectivity occurring between these spaces and Riverside’s

neighborhoods with landscaped parkways and trails accessible to pedestrians and cyclists. The General Plan identifies 18 specific policies to provide access to parks and recreation facilities and services. The City's General Plan Parks and Recreation Element also establishes a standard for developed park acreage of three acres per one thousand residents, which includes one acre of neighborhood parks per 1,000 residents and two acres of community parks per 1,000 residents (City of Riverside 2012).

University Neighborhood Plan

The University Neighborhood Plan contains policies related to parks and recreation (City of Riverside 2008):

- Development of a comprehensive park improvement plan that is consistent with the Park Master Plan to preserve, upgrade, or enhance public parks as needed, including Highland Park, Islander Park, and Mt. Vernon Park
- Preservation of the Box Springs Mountain Reserve Park through access restrictions and prevention of off-road vehicles in the open spaces
- Exploration of the possibility of constructing or establishing the Gage Canal Citywide Bikeway and Hiking Trail
- Exploration of a suitable location for a Community/Senior Center
- Encouragement of the provision of public gathering spaces within all new high density and mixed-use developments

Riverside Comprehensive Park, Recreation & Community Services Master Plan

The City adopted the Riverside Comprehensive Park, Recreation & Community Services Master Plan in February 2020 (City of Riverside 2020a). The plan serves as a guide and implementation tool for the management and development of parks and recreational facilities and programs for the City. The Riverside Comprehensive Park, Recreation & Community Services Master Plan is part of the defined strategy to address the primary actions and policies enacted in the Parks and Recreation Element of the General Plan. The Riverside Comprehensive Park, Recreation & Community Services Master Plan identifies \$4.2 million in funded projects and nearly \$241 million of unfunded deferred maintenance projects. The City also identified several undeveloped parcels, totaling approximately 350 acres, that are adjacent to existing parks and could be considered for future park development.

City of Riverside Bicycle Master Plan

The City's Bicycle Master Plan has identified 67.3 miles of planned trail improvements, including bike and pedestrian trails, throughout the City (City of Riverside 2007).

Riverside PACT Trails Master Plan

The City adopted the Trails Master Plan in August 2021 (City of Riverside 2021b). The plan proposes and prioritizes new trails and gap closures, addresses integration of trail facilities within the City's on-street active transportation network, and identifies potential funding sources. In the vicinity of the project site, the Trails Master Plan proposes development of an additional segment of the Gage Canal corridor multi-purpose trail that would run from the portion of the Gage Canal adjacent to the proposed STEM Education Center location east along the southern side of Blaine Street and south along the eastern side of Canyon Crest Drive.

4.16.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Recreation to assess the proposed project.

Would the proposed project:

- a. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?
- b. Require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Methodology

Impacts related to recreational facilities were determined by evaluating whether the proposed project would increase use of existing parks and recreational facilities and whether this would lead to the substantial deterioration or degradation of existing parks and recreational facilities or require the construction or expansion of parks and recreational facilities, which would have an adverse physical effect on the environment. Substantial physical deterioration is recognized as a decline in the quality of current conditions of a park or facility beyond regular wear and tear. Secondary effects to environmental resources such as air quality, energy, greenhouse gas emissions, noise, and transportation that may result from removal of the existing recreational facilities on the project site are discussed in the respective sections for these issues, including Section 4.3, *Air Quality*, Section 4.6, *Energy*, Section 4.8, *Greenhouse Gas Emissions*, Section 4.13, *Noise*, and Section 4.17, *Transportation*.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Impact REC-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT INCREASE THE USE OF EXISTING NEIGHBORHOOD AND REGIONAL PARKS OR OTHER RECREATIONAL FACILITIES SUCH THAT SUBSTANTIAL DETERIORATION OF THOSE FACILITIES WOULD OCCUR OR BE ACCELERATED. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Construction

During construction, there would be a temporary increase in construction workers on the project site. These construction workers would likely originate from an existing pool of construction employees in the region that would not likely relocate their households as a consequence of the proposed project given the short-term and temporary nature of project construction. Therefore, the increased employment of construction workers on the project site would not result in an increase in the residential population of the area surrounding the project site. Accordingly, there would not be a corresponding demand for or use of the existing parks and recreation facilities during this time as construction workers are more likely to use parks and recreation facilities near their places of residence. It is anticipated that construction workers would not use nearby parks during their lunch

break; it is not likely they would leave the construction site for lunch because lunch breaks are not typically long enough for workers to take advantage of such facilities and return to work within the typical 30- to 60-minute lunch break. Thus, project construction would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated, and impacts would be **less than significant**.

Operation

The proposed project includes decommissioning of the existing Sprint and T-Mobile cell towers, relocation of the T-Mobile Cell Tower, construction of the proposed utilities improvements and other on- and off-site improvements, and the construction of a STEM Education Center that would serve existing students in grades 9 through 12 within the RUSD's service population. The proposed project would require the removal of the existing open recreational field on site, which is currently utilized by UCR and the City through the joint-use agreement summarized in Section 4.16.3, *Regulatory Framework*. The existing open recreational fields on the site are not planned to be replaced, although additional recreational fields are included in the currently under-construction North District Development Phase 2 Project. The removal of the existing open recreational field would preclude all existing on-site recreational activities as shown in Table 4.16-1 in Section 4.16.2, *Existing Conditions*, from utilizing the project site. These activities include UCR intramural sport events (currently occurring one day per week), UCR club sport practices and events (currently occurring four days per week), youth soccer camps (currently occurring three days per week), and the City softball league (currently occurring two days per week) as well as general recreational activities conducted by community members that use the site during open recreation hours.

UCR RECREATIONAL FACILITIES

The project site is primarily utilized for the following intramural and club sport teams practices:

- Ultimate Frisbee (Tuesday/Thursday, 8:00 to 10:00 p.m.)
- Women's Rugby (Tuesday/Thursday, 6:00 to 8:00 p.m.)
- Men's Rugby (Tuesday/Thursday, 7:00 to 9:00 p.m.)
- Baseball (Monday/Wednesday, 7:00 to 9:00 p.m.)

In addition, infrequent events, such as games, are held at the project site for these intramural and club sports. Participation in these teams for the 2021 to 2022 school year (the most recent complete year for which data is available) was approximately 132 students (Middleton 2022).

Upon the start of project construction, practices and events for the UCR intramural and club sport teams that currently utilize the project site could be temporarily suspended if construction of the recreational fields that are part of the North District Development Phase 2 is not complete.² This temporary suspension would affect recreational usage of the project site by four intramural and club sport teams and approximately 132 students. Because such activities would be temporarily suspended until North District Development Phase 2 is constructed, substantial deterioration of on-campus recreational facilities would not occur as a result of the proposed project. Furthermore, relocation of the T-Mobile Cell Tower to the adjacent UCR Baseball Complex would not adversely affect use of the baseball complex for recreation because the re-located cell tower would be sited in the northeastern corner of the complex outside the area actively used for recreation. Therefore,

² The North District Development Phase 2 is currently under construction with construction anticipated for completion in summer 2025.

impacts related to potential increased use and physical deterioration of existing on-campus recreational facilities would be **less than significant**. In addition, UCR's 2021 LRDP includes the development of an additional 97,740 gross square feet of indoor recreation space and four new outdoor fields anticipated to be built by academic year 2035/2036, the environmental impacts of which have already been analyzed in the 2021 LRDP EIR (UCR 2021a and 2021b). These new recreational facilities would serve to offset increased usage of existing UCR facilities resulting from removal of the existing open recreational field under the proposed project and would further reduce this already less-than-significant impact.

EXISTING CITY RECREATIONAL FACILITIES

The existing joint-use agreement between the Regents and the City for use of the open recreation field will terminate on September 16, 2027 under existing baseline conditions. The project may begin construction as early as January 1, 2026, which would thus result in early termination of the joint-use agreement. The removal of the open recreational field prior to the planned end date of the joint-use agreement may result in increased usage of other similar recreational facilities in the City between January 1, 2026 and September 16, 2027 that would not have occurred under existing conditions in which the joint-use agreement expires on September 16, 2027.

Depending on field availability, youth soccer camps would likely be re-located to existing nearby City recreational facilities with youth soccer fields, such as Andulka Park (approximately 1.9 miles to the southwest), AB Brown Sports Complex (approximately 2.6 miles to the northwest), or Washington Park (approximately 4.5 miles to the southwest) (City of Riverside 2020a). Youth soccer camps may also be re-located to any local RUSD school campuses through the RUSD facilities rental program, such as Highland Elementary School (approximately 0.3 mile to the northeast), University Heights Middle School (approximately 0.3 mile to the northwest), or John W. North High School (approximately 0.9 mile to the west).

City softball league events would likely be re-located to Hunter Hobby Park (approximately 1.1 miles to the northwest) or Reid Park (approximately 2.6 miles to the northwest), which are the other facilities currently utilized by the City softball league (Major League Softball 2021). These events may also be relocated to other nearby City recreational facilities with lighted adult softball fields such as Patterson Park (approximately 1.0 mile to the southwest), Bordwell Park (approximately 1.6 miles to the southwest), or Ryan Bonaminio Park (approximately 3.3 miles to the west) (City of Riverside 2020a).

Community members that utilize the open recreational field on site during open recreation hours would likely choose to use other nearby parks instead, such as Highland Park (approximately 0.3 mile to the northeast), Patterson Park (approximately 1.0 mile to the southwest), Islander Park (approximately 1.1 miles to the southeast), and the Stratton Recreation Center (approximately 1.6 miles to the southwest), depending on each community member's recreational needs.

The re-location of youth soccer camps, City softball league events, and general community member recreation to other City facilities in the local area would increase usage and accelerate deterioration of these facilities between January 1, 2026 and September 16, 2027, as compared to existing baseline conditions in which the City would continue using the on-site field until September 16, 2027. However, as outlined in the joint-use agreement, the Regents must return to the City two percent of the total monies paid by the City for the non-exclusive license if early termination occurs. Reimbursement of this money would help the City offset the physical deterioration of other City facilities that may occur due to increased usage. In addition, as outlined earlier, increased usage of other City recreational facilities would likely be distributed among several locations such that

increased usage and the associated physical deterioration would not be concentrated at one facility. Furthermore, increased usage and the associated physical deterioration of facilities would be temporary and short-term, occurring for approximately 20.5 months as compared to baseline conditions. The temporary and short-term nature of this impact resulting from the proposed project would minimize the potential for substantial physical deterioration of these recreational facilities to occur or be accelerated. Thus, for the reasons discussed above, the conversion of the project site from an open recreational field to the proposed STEM Education Center would not increase the use of existing City neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of these City facilities would occur or be accelerated. Lastly, as discussed in Section 4.14, *Population and Housing*, the proposed project would not directly or indirectly induce population growth that would place additional demand on existing City parks and recreational facilities. Impacts would be **less than significant**.

PLANNED CITY RECREATIONAL FACILITIES

As shown in Figure 2-4 in Section 2, *Project Description*, the proposed project would not encroach on or interfere with the City's planned Gage Canal Multipurpose Recreational Trail, which would travel adjacent to the Gage Canal from Palmyrita Street to the Riverside Sports Complex located on and adjacent to the project site just north of Blaine Street (City of Riverside 2021a). Similarly, the proposed project would not encroach or interfere with the City's additional planned multipurpose trail segment that would run from the portion of the Gage Canal adjacent to the proposed STEM Education Center location east along the southern side of Blaine Street and south along the eastern side of Canyon Crest Drive (City of Riverside 2021b). The secondary egress driveway on Blaine Street would allow buses and UCR service vehicles to either turn left (west) or right (east), depending on their subsequent destinations. Buses and service vehicles turning out of this driveway would traverse the Gage Canal Multipurpose Recreational Trail's proposed crossing at Blaine Street and the proposed additional trail segment along Blaine Street. Bus activity would primarily occur on weekdays as buses depart from morning drop-off at approximately 8:00 a.m. (10 buses), mid-day drop-off/pick-up at approximately 12:30 p.m. (10 buses), and afternoon pick-up at approximately 3:30 p.m. (10 buses). This limited level of infrequent vehicle traffic over the proposed trails would not substantially affect trail users' ability to utilize these trails. In addition, drivers of school buses and service vehicles would be required to comply with all traffic safety measures installed as part of the trail's Blaine Street crossing, such as crosswalk signs and devices. Therefore, the proposed project would not interfere with use of the City's planned trails, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Does the proposed project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Impact REC-2 IMPLEMENTATION OF THE PROPOSED PROJECT DOES NOT INCLUDE NEW RECREATIONAL FACILITIES OR REQUIRE THE CONSTRUCTION OR EXPANSION OF RECREATIONAL FACILITIES WHICH MIGHT HAVE AN ADVERSE EFFECT ON THE ENVIRONMENT. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES ARE REQUIRED.

The proposed project does not include the construction of recreational facilities or the expansion of recreational facilities. As discussed in Section 4.14, *Population and Housing*, the proposed project would not directly or indirectly induce population growth that would require the construction or expansion of recreational facilities. In addition, as discussed in Section 4.15, *Public Services*, the conversion of the project site from open recreational fields to the proposed STEM Education Center would not result in the need for new or expanded recreational facilities because the proposed project would not adversely affect the City’s ability to achieve its parkland acreage standards or meet its baseball and softball field needs. As discussed under Impact REC-1, upon the start of project construction, practices and events for the four UCR intramural and club sport teams and associated approximately 132 students that currently utilize the project site could be temporarily suspended if construction of the recreational fields that are part of the North District Development Phase 2 is not complete.³ This temporary suspension would affect recreational usage of the project site by four intramural and club sport teams and approximately 132 students, but would be limited in duration. Re-location of the T-Mobile Cell Tower to the adjacent UCR Baseball Complex also would not adversely affect use of the baseball complex for recreation because the re-located cell tower would be sited in the northeastern corner of the complex outside the area actively used for recreation. Therefore, impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.16.5 Cumulative Impacts

The cumulative setting for recreation is the geographic area of the City and Riverside County. This geographic extent was selected because City and County recreational facilities exist and serve the project site and areas surrounding the project site.

It is anticipated that, to accommodate future cumulative demand for parks and recreational facilities, new parks and recreational facilities would be developed and constructed throughout the region. The City has an adopted standard of two acres of community parks and one acre of neighborhood parks per 1,000 residents. In addition, the parkland acreage ratio recommended in the City’s Comprehensive Park, Recreation, & Community Services Master Plan is five acres per 1,000 residents. Currently, the City has identified a need to expand recreational facilities to meet projected demand by 2030 (City of Riverside 2020b). As such, cumulative impacts to parks would be significant. However, as discussed under Impact REC-1, the proposed project would not increase the

³ The North District Development Phase 2 is currently under construction with construction anticipated for completion in summer 2025.

use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. Although the proposed project would remove existing open recreational fields, it would not result in inconsistency with City parkland goals because the project site is not included in the City's calculation of parkland acreage or its needs analysis for recreational facilities (City of Riverside 2020b). In addition, UCR's 2021 LRDP includes the development of an additional 97,740 gross square feet of indoor recreation space and four new outdoor fields to be built by academic year 2035/2036, the environmental impacts of which have already been analyzed in the 2021 LRDP EIR (UCR 2021a and UCR 2021b). Therefore, the proposed project's contribution to cumulative impacts to parks would **not be cumulatively considerable (less than significant)**.

Cumulative, regional population growth would increase the use of parks and recreational facilities throughout the City and Riverside County, as discussed in Table 4-1 and Table 4-2 in Section 4, *Environmental Impact Analysis*, of the EIR. Many recreational facilities do not all have quantifiable participant capacity and depend upon activities, which can vary on a day-to-day basis. If certain facilities are being used (i.e., soccer field), individuals may elect to participate in ongoing activities, wait for activities to end, or choose alternate activities in the area. While certain facilities have limited seating capacity, that capacity is not necessarily applicable for all events being hosted at that location, e.g., non-sporting entertainment. Increased usage of bike paths and pedestrian facilities do not typically result in substantial deterioration; rather, bike and pedestrian facilities are typically deteriorated by tree roots and natural phenomena. Additionally, increased use of bike paths would be in line with typical and appropriate bike path use.

Additionally, as future cumulative residential development projects in various jurisdictions are approved, in-lieu fees for parks or donation of parkland (pursuant to the Quimby Act) would be required as part of the individual project. In addition, grants from State and county bond sources would be available to fund park and recreational facilities. These funding sources would provide maintenance and new, expanded, or improved neighborhood and community parkland and recreational facilities in the various jurisdictions to satisfy demand from future population growth. Funding for maintenance of those facilities would be provided through property assessments and taxes that are distributed to jurisdictions in the region. As discussed in Section 4.14.1, the City also maintains facility joint-use agreements with local school districts, Riverside City College, and UCR (for the Riverside Sports Complex).

Therefore, while cumulative population growth would increase the use of existing parks and recreational facilities, increased use would not cause substantial deterioration of the existing parks and recreational facilities and cumulative impacts (Impact REC-1) would be **less than significant, and the proposed project's contribution would not be cumulatively considerable**.

It is anticipated that, to accommodate future cumulative demand for park and recreational facilities, new park and recreational facilities would be developed and constructed throughout the region. As described in Section 4.16.2, *Existing Conditions*, and Section 4.16.3, *Regulatory Framework*, the County and City of Riverside have each identified potential, near-term projects to develop or expand parkland and trails, including the multi-use, multi-county Santa Ana River Trail and the Gage Canal Trail Project north of campus. In addition, some existing parks and recreational facilities may be improved or redeveloped to be able to provide universal access.

Local jurisdictions require environmental review and documentation pursuant to CEQA for parks and recreation projects, as well as analysis of those projects for consistency with the goals, policies, and recommendations of their general plans. In general, compliance with federal, State, and local regulations would preclude incremental impacts associated with new construction or expansion of new parks or recreational facilities. As described in Section 4.14, *Population and Housing*, the proposed project growth would not exceed regional growth projections and induce additional services, such as recreation.

Park and recreational facilities proposed by UCR would adhere to the policies of the 2021 LRDP, UCR development guidelines, and applicable federal and State regulations to address potentially significant impacts. Therefore, cumulative impacts related to the construction or expansion of parks and recreational facilities (Impact REC-2) would **be less than significant**.

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4.17 Transportation

4.17.1 Introduction

This section describes the existing and projected transportation characteristics at and near the project site and evaluates whether implementation of the proposed project would result in any environmental impacts associated with conflicts with programs, plans, ordinances or polices addressing the circulation system; substantial increases in vehicle miles traveled (VMT); introduction of roadway hazards; or inadequate emergency access. The analysis in this section utilizes the September 2023 CEQA Transportation Impact Analysis (TIA) prepared for the proposed project by Fehr and Peers (Appendix H).

4.17.2 Existing Conditions

Regional Setting

Roadway System

UCR is within the eastern portion of the City of Riverside (City). Regional highways within the City include Interstate 215 (I-215) and State Route (SR) 60. As a combined route, I-215/SR 60 traverses in a north/south direction from Moreno Valley to Riverside. I-215/SR 60 diagonally bisects UCR. Near the project site, I-215/SR 60 is an eight-lane facility with four roadways traveling in each direction. Access to I-215/SR 60 is provided at Blaine Street/3rd Street, University Avenue, Martin Luther King Boulevard, and Central Avenue (UCR 2021a).

Vehicle Miles Traveled

Baseline VMT levels in the Western Riverside Council of Governments (WRCOG) region are presented in Table 4.17-1. As shown therein, average daily VMT per service population is 33 VMT.

Table 4.17-1 Baseline VMT for the WRCOG Region

	Total Daily VMT	Service Population	Daily VMT Per Service Population
WRCOG Region	90,203,331	2,762,109	32.66

WRCOG = Western Riverside Council of Governments; VMT = vehicle miles traveled

Note: Service population includes employees, residents, and grade 9-12 students.

Source: Appendix H

Transit Facilities

RIVERSIDE TRANSIT AGENCY

The Riverside Transit Agency (RTA) provides fixed route, commuter, and dial-a-ride bus service within western Riverside County, including the cities of Riverside, Corona, Norco, Jurupa, Grand Terrace, Loma Linda, Moreno Valley, Perris, San Jacinto, Hemet, Lake Elsinore, and Temecula. American with Disabilities Act (ADA) services within the City are provided by the City’s Riverside Special Services. All buses on fixed routes are equipped with bike racks that hold two bicycles.

METROLINK

Commuter train service to the project site vicinity is provided by Metrolink, which operates seven commuter rail lines throughout Southern California. The UC Riverside/Riverside Hunter Park Metrolink Station is located northwest of Marlborough Avenue/Rustin Avenue intersection, approximately 1.1 miles north of the project site. The UC Riverside/Riverside Hunter Park Metrolink Station is served by the 91/Perris Valley Line, which links Perris-South to LA Union Station on weekdays and weekends.

The Downtown Riverside Metrolink Station is located on Vine Street between University Avenue and 14th Street, approximately 2.2 miles west of the project site. The Downtown Riverside Metrolink Station is served by the 91/Perris Valley Line, which links Perris-South to LA Union Station on weekdays and weekends; the Riverside Line, which links Riverside Downtown to LA Union Station on weekdays; and the Inland Empire-Orange County Line, which links San Bernardino Downtown to Oceanside on weekdays and weekends.

Campus and Project Site Setting

Local Access Roads and Circulation

Circulation at and near the project site is provided by a series of roadways and multi-modal paths. Local roads that provide access to the project site (Appendix H):

- Canyon Crest Drive is a north-south facility that widens from a 66-foot two-lane collector into an 88-foot four-lane arterial. Canyon Crest Drive is within the utilities improvement alignment portion of the project site. Canyon Crest Drive provides access to the UCR campus core and has a speed limit ranging from 25 to 40 miles per hour (mph).
- Blaine Street/3rd Street is an east-west four-lane facility that runs within the electrical feeder line upgrade alignment portion of the project site. Blaine Street intersects Canyon Crest Drive immediately east of the project site and has a speed limit of 40 mph.
- Watkins Drive is a north-south two-lane facility along the northern edge of the UCR East Campus that intersects Blaine Street approximately 0.3 mile east of the project site. It has a variable speed limit ranging between 35 and 45 mph.
- Iowa Avenue is a north-south four-lane facility that bisects portions of the UCR West Campus and will be widened to six lanes in the future, with an estimated opening year of 2026 (UCR 2021a). Iowa Avenue is located approximately 0.4 mile west of the project site. Iowa Avenue has a speed limit of 45 mph.

Parking

UCR actively manages parking demand through a tiered parking permit system where users purchase permits for various parking facilities at different price points, based on distance to the Academic Center. The permit program generally necessitates mode choice and parking decisions before an individual initiates a trip to UCR. UCR parking supply and demand are reviewed regularly to identify the adequacy of the parking facilities. UCR typically experiences peak parking demand in the first few weeks of the fall quarter of the school year. Based on past observations, historical parking data suggests the campus' parking inventory has been able to accommodate 86 percent of this peak demand. On average, approximately 67 percent of total UCR parking spaces are utilized (UCR 2021a).

Pedestrian and Bicycle Facilities

Pedestrian connectivity is important to access UCR facilities. The pedestrian system consists of a network of walkways that connect parking areas to UCR facilities. Pedestrian facilities include sidewalks, crosswalks, and pedestrian signals. Sidewalks provided near the project site include the following:

- Canyon Crest Drive
- Blaine Street/3rd Street
- West Linden Street
- Iowa Avenue
- Watkins Drive

Pedestrian access to bus stops near the project site occur on Canyon Crest Drive and Blaine Street.

Near UCR, the City has implemented bicycle facilities within rights-of-way of various classes. These include Class II facilities (striped lanes located next to curbs or parking lanes for the exclusive use of bicycle riders) and Class IV facilities (separated bikeways designed exclusively for bicycle travel and protected from vehicular traffic by some kind of separation [e.g., flexible posts, inflexible physical barriers, on-street parking]). Near the project site, the following bicycle facilities exist (Appendix H):

- **Class II Bicycle Facilities**
 - Iowa Avenue: Bike lanes are provided north of University Avenue on both sides of the street.
 - Canyon Crest Drive: Bike lanes are provided between University Avenue and the Bannockburn Village Driveway on both sides of the street.
 - Watkins Drive: Bike lanes are provided between Spruce Street and I-215/SR-60 on both sides of the street.
 - Blaine Street: Bike lanes are provided between Valencia Hills Drive and Market Street on both sides of the street.
 - West Linden Street: Bike lanes are provided between Aberdeen Drive and Niki Way on both sides of the street. A bike lane is provided in the westbound direction between Chicago Avenue and Niki Way.
 - University Avenue: Bike lanes are provided between Canyon Crest Drive and Lime Street on both sides of the street.
 - Big Springs Road: Bike lanes are provided between Campus Drive and Mt. Vernon Avenue on both sides of the street.
 - Martin Luther King Boulevard: Bike lanes are provided between Canyon Crest Drive and Chicago Avenue.
 - Aberdeen Drive: Bike lanes are provided between West Linden Street and Campus Drive.
 - Campus Drive: Bike lanes are provided on the campus loop road between the Parking Lot 1 Driveway and Aberdeen Drive.

▪ **Class IV Bicycle Facilities**

- University Avenue: A protected two-way cycle track is provided on the south side of University Avenue between Campus Drive and Canyon Crest Drive.
- Canyon Crest Drive: A two-way cycle track is provided on the east side of Canyon Crest Drive between University Avenue and West Linden Avenue.
- Iowa Avenue: A two-way cycle track is provided on the east side of Iowa Avenue between Everton Place and Martin Luther King Boulevard.

In addition to these existing facilities, the City plans to convert a two-mile segment of the Gage Canal right-of-way into a Class I multi-use paved asphalt bicycle trail with a parallel pedestrian trail. The Gage Canal Multipurpose Recreational Trail is planned to extend adjacent to the Gage Canal from Palmyrita Street to the Riverside Sports Complex located on and adjacent to the project site (City of Riverside 2021a).

Transit Facilities

RIVERSIDE TRANSIT AGENCY

RTA routes that serve areas closest to the project site include Routes 1, 10, 13, 14, 16, and 204. Representative 2022 schedule information is provided below (Appendix H):

- **Route 1 (UC Riverside – Downtown Riverside – Corona)** – This route runs from UC Riverside Bannockburn to the West Corona Metrolink Station. Near the project site, it operates on weekdays from 4:34 a.m. to 11:31 p.m. with 20-minute headways. It operates on weekends from 6:54 a.m. to 10:07 PM with 30-minute headways.
- **Route 10 (Big Springs & Watkins – Downtown Riverside – Galleria at Tyler)** – This route runs from Galleria at Tyler to the intersection between Big Springs Road and Watkins Drive. Near the project site, it operates on weekdays from 8:18 a.m. to 8:35 p.m. with 60-minute headways. It operates on weekends from 9:14 a.m. to 7:41 p.m. with 90-minute headways.
- **Route 13 (Hunter Park/UC Riverside Metrolink Station – Downtown Riverside – Galleria at Tyler)** – This route runs from Galleria at Tyler to the Hunter Park/UC Riverside Metrolink Station. Near the project site, it operates on weekdays from 7:25 a.m. to 6:22 p.m. with 60-minute headways. It operates on weekends from 7:20 a.m. to 5:34 p.m. with 60-minute headways.
- **Route 14 (Galleria at Tyler – Downtown Riverside – Loma Linda VA Hospital)** – This route runs from Galleria at Tyler to the Veterans Affairs Hospital at Loma Linda. Near the project site, it operates on weekdays from 7:27 a.m. to 7:29 p.m. with 60-minute headways. It operates on weekends from 8:11 a.m. to 5:31 p.m. with 60-minute headways.
- **Route 16 (Moreno Valley Mall – UC Riverside)** – This route runs from the Moreno Valley Mall to UC Riverside Bannockburn. Near the project site, it operates on weekdays from 5:35 a.m. to 10:15 p.m. with 15-minute headways. It operates on weekends from 7:30 a.m. to 10:13 p.m. with 45-minute headways.
- **Route 204 (UC Riverside – Downtown Riverside – Ontario Mills Mall – Montclair Transit Center)** – This route runs from UC Riverside Bannockburn to the Montclair Transit Center. Near the project site, it operates on weekdays from 6:33 a.m. to 8:47 p.m. with 60-minute headways.

4.17.3 Regulatory Framework

Federal

There are no federal regulations related to transportation that would be applicable to the proposed project.

State

California Global Warming Solutions Act of 2006 (Assembly Bill 32 and Senate Bill 32)

The California Global Warming Solutions Act of 2006 (Assembly Bill [AB] 32) outlines California's major legislative initiative for reducing greenhouse gas (GHG) emissions. AB 32 codifies the statewide goal of reducing GHG emissions to 1990 levels by 2020 and requires the California Air Resources Board (CARB) to prepare a Scoping Plan that outlines the main State strategies for reducing GHG emissions to meet the 2020 deadline. In addition, AB 32 requires CARB to adopt regulations to require reporting and verification of statewide GHG emissions. Based on this guidance, CARB approved a 1990 statewide GHG level and 2020 target of 431 million metric tons of carbon dioxide equivalents (CO₂e), which was achieved in 2016. CARB approved the Scoping Plan on December 11, 2008, which included GHG emission reduction strategies related to energy efficiency, water use, and recycling and solid waste, among others (CARB 2008). Many of the GHG reduction measures included in the Scoping Plan (e.g., Low Carbon Fuel Standard, Advanced Clean Car standards, and Cap-and-Trade) have been adopted since the Scoping Plan's approval.

CARB approved the 2013 Scoping Plan update in May 2014. The update defined the CARB's climate change priorities for the next five years, set the groundwork to reach post-2020 statewide goals, and highlighted California's progress toward meeting the "near-term" 2020 GHG emission reduction goals defined in the original Scoping Plan. It also evaluated how to align the State's longer term GHG reduction strategies with other State policy priorities, including those for water, waste, natural resources, clean energy, transportation, and land use (CARB 2014).

On September 8, 2016, Governor Brown signed Senate Bill (SB) 32 into law, extending the California Global Warming Solutions Act of 2006 by requiring the State to further reduce GHG emissions to 40 percent below 1990 levels by 2030 (the other provisions of AB 32 remain unchanged). On December 14, 2017, the CARB adopted the 2017 Scoping Plan, which provides a framework for achieving the 2030 target. The 2017 Scoping Plan relies on the continuation and expansion of existing policies and regulations, such as the Cap-and-Trade Program, and implementation of recently adopted policies and legislation. The 2017 Scoping Plan also puts an increased emphasis on innovation, adoption of existing technology, and strategic investment to support its strategies. As with the 2013 Scoping Plan update, the 2017 Scoping Plan does not provide project-level thresholds for land use development. Instead, it recommends that local governments adopt policies and locally appropriate quantitative thresholds consistent with statewide per capita goals of six metric tons (MT) of CO₂e by 2030 and two MT of CO₂e by 2050 (CARB 2017). As stated in the 2017 Scoping Plan, these goals may be appropriate for plan-level analyses (city, county, sub-regional, or regional level).

Senate Bill 375

SB 375, signed in August 2008, enhances the State's ability to reach AB 32 goals by directing CARB to develop regional GHG emission reduction targets to be achieved from passenger vehicles for 2020 and 2035. In addition, SB 375 directs each of the State's 18 major Metropolitan Planning

Organizations to prepare a Sustainable Communities Strategy (SCS) that contains a growth strategy to meet these emission targets for inclusion in the Regional Transportation Plan (RTP). On March 22, 2018, CARB adopted updated regional targets for reducing GHG emissions from 2005 levels by 2020 and 2035. The Southern California Association of Governments (SCAG) was assigned targets of an 8 percent reduction in per capita GHG emissions from passenger vehicles by 2020 and a 19 percent reduction in per capita GHG emissions from passenger vehicles by 2035 (CARB 2022). In the SCAG region, SB 375 also provides the option for the coordinated development of subregional plans by the subregional councils of governments and the county transportation commissions to meet SB 375 requirements.

Senate Bill 743

SB 743 was signed into law on September 27, 2013 and declares that “automobile delay, as described solely be level of service or similar measures of vehicular capacity or traffic congestion shall not be considered a significant impact on the environment.” It further directed the Office of Planning and Research (OPR) to develop revisions to the CEQA Guidelines to establish new criteria for determining the significance of transportation impacts. SB 743 was enacted, in part, as further implementation of California’s Climate Action Plan to meet California Global Warming Solutions Act (AB 32) GHG emission reduction targets.

SB 743 seeks to reduce criteria air pollutants and GHG emissions in the transportation sector by reducing VMT. SB 743 changed the approach to transportation impact analysis by establishing measures such as VMT, VMT per capita, or automobile trip generation rates as the primary measures of transportation impacts and eliminates the traditionally-used measures of auto delay, level of service (LOS), and other measures of traffic congestion as the basis for determining significant impacts under CEQA. In December 2018, OPR adopted and promulgated its changes to the CEQA Guidelines (14 California Code of Regulations [CCR] Section 15000 et seq.) and its Advisory on Evaluating Transportation Impacts in response to SB 743. This document includes technical recommendations regarding the assessment of VMT, thresholds of significance, VMT mitigation measures, and screening thresholds for certain land use projects. Lead agencies may consider and use these recommendations at their discretion (OPR 2018). The VMT threshold guidance in OPR’s Technical Advisory was based upon the California Air Resources Board *2017 Scoping Plan-Identified VMT Reductions and Relationship to State Climate Goals* (CARB 2019). Consistent with that guidance, one of the thresholds for project-generated VMT is whether the project would result in a VMT per service population 15 percent below the “existing conditions” VMT per service population. As explained in the Technical Advisory (OPR 2018):

Based on OPR’s extensive review of the applicable research, and in light of an assessment by the CARB quantifying the need for VMT reduction in order to meet the State’s long-term climate goals, OPR recommends that a per capita or per employee VMT that is 15 percent below that of existing development may be a reasonable threshold.

Fifteen percent reductions in VMT are achievable at the project level in a variety of place types.

Moreover, a 15 percent reduction is consistent with SB 743’s direction to OPR to select a threshold that will help the State achieve its climate goals. As described above, [Public Resources Code] Section 21099 states that the criteria for determining significance must “promote the reduction in GHG emissions.” In its document the CARB 2017 Scoping Plan-Identified VMT Reductions and Relationship to State Climate Goals, CARB assesses VMT reduction per capita consistent with its evidence-based modeling scenario that would achieve State climate goals of 40 percent GHG emissions reduction from 1990 levels by 2030 and

80 percent GHG emissions reduction levels from 1990 by 2050. Applying California Department of Finance population forecasts, CARB finds per-capita light-duty vehicle travel would need to be approximately 16.8 percent lower than existing, and overall per-capita vehicle travel would need to be approximately 14.3 percent lower than existing levels under that scenario. Below these levels, a project could be considered low VMT and would, on that metric, be consistent with 2017 Scoping Plan Update assumptions that achieve climate state climate goals...

In summary, achieving 15 percent lower per capita (residential) or per employee (office) VMT than existing development is both generally achievable and is supported by evidence that connects this level of reduction to the State's emissions goals.

California Department of Transportation

The California Department of Transportation (Caltrans) is responsible for planning, designing, constructing, operating, and maintaining the state highway system. Federal highway standards are implemented in California by Caltrans. Any improvements or modifications to the highway system, including ramps and access points, within the study area would need to be approved by Caltrans. The following Caltrans planning documents emphasize the State of California's focus on transportation infrastructure that supports mobility choice through multimodal options, smart growth, and efficient development:

- Smart Mobility 2010: A Call to Action for the New Decade
- Complete Streets Implementation Action Plan
- Strategic Management Plan 2020-2024
- California Transportation Plan 2050

University of California, Riverside

Main Campus Emergency Access Plan

As required by CCR Title 8, UCR prepared and implemented an Emergency Action Plan in July 2012. The latest revision to the plan occurred in 2016. The document is intended to guide the emergency response actions of all campus personnel during an emergency event as well as to provide standard actions in the case of a safety-threatening emergency. The plan includes procedures relevant to address hazards including evacuation procedures and emergency escape routes, procedures for employees who remain to operate critical plan operations before they evacuate, and procedures to account for all employees after an emergency evacuation is completed (UCR 2016).

UCR Standard Conditions during Construction Activities

Contractors of projects on the UCR campus are required to follow standard conditions during construction, including, but not limited to, the following (UCR 2021a):

- Construction parking must be configured to minimize traffic interference.
- Temporary traffic controls, such as a flag person, are provided during all phases of construction to maintain smooth traffic flow.
- Dedicated turn lanes are provided for movement of construction trucks and equipment on- and off-site.
- Construction activities that affect traffic flow on the arterial system are scheduled during off-peak hours, to the extent practicable.

- Improvements to traffic flow by signal synchronization are implemented, to the extent feasible.
- Vehicles and equipment are required to be properly tuned and maintained according to manufacturers’ specifications.
- Construction trucks are rerouted away from congested streets or sensitive receptor areas, to the extent feasible

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP also includes objectives and policies relevant to transportation that are applicable to the proposed project, which are summarized in Table 4.17-2.

Table 4.17-2 UCR 2021 LRDP Objectives and Policies Related to Transportation

Objective	Policy
Mobility	
Invest in infrastructure to increase bicycle use and support other active transportation modes to integrate desired routes with the campus’ and City’s circulation framework.	Support and facilitate City-led initiatives to extend bikeways to campus from every direction, including routes proposed along Canyon Crest Drive, Martin Luther King Boulevard, and the Gage Canal.
	Develop wayfinding systems to interconnect preferred bicycle routes and invest in safe and secure pathways along all bicycle routes.
	Provide adequate support amenities to facilitate and encourage the use of bicycles and other alternative transportation modes.
	Develop a comprehensive improvement plan for Campus Drive to improve function, safety and utility for each mode of travel, as incremental growth occurs.
Emphasize safe and pleasing passage for pedestrians and bicycle riders through the careful, continued development and integration of the campus’ multi-modal circulation framework and its extensions into the immediate community.	Identify and address gaps within the existing non-motorized circulation network, both on-campus and within the adjacent community.
	Implement University policies to improve pedestrian safety and encourage social interaction in zones of high pedestrian activity.

Source: UCR 2021b

Regional and Local

As noted in Section 4, Environmental Impact Analysis, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

SCAG Regional Transportation Plan and Sustainable Communities Strategy

Every four years, SCAG updates its RTP for its region, which includes Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura counties. The RTP assembles a regional project list based on input from cities, counties, transit agencies, congestion management agencies, regional transportation planning agencies, and Caltrans. This project list is then combined with population and employment growth forecasts. As discussed previously, beginning with the 2012 RTP, SB 375 required the inclusion of an SCS in RTPs prepared by Metropolitan Planning Organizations, such as SCAG. The key goal of the SCS is to achieve GHG emission reduction targets through integrated land use and transportation strategies.

On September 3, 2020, SCAG's Regional Council formally adopted the 2020-2045 RTP/SCS (titled Connect SoCal). The 2020-2045 RTP/SCS builds upon the progress made through implementation of the 2016-2040 RTP/SCS and includes ten goals focused on promoting economic prosperity, improving mobility, protecting the environment, and supporting healthy/complete communities. The SCS implementation strategies include focusing growth near destinations and mobility options, promoting diverse housing choices, leveraging technology innovations, and supporting implementation of sustainability policies. The SCS establishes a land use vision of center focused placemaking, concentrating growth in and near Priority Growth Areas, transferring of development rights, urban greening, creating greenbelts and community separators, and implementing regional advance mitigation (SCAG 2020).

Western Riverside Council of Governments Transit Oriented Development Planning Framework

The WRCOG Transit Oriented Development (TOD) Planning Framework offers principles that support compact development in existing and proposed transit center station areas with a focus on direct, safe, and convenient pedestrian connections to stations and other transportation modes. It encourages urban design that emphasizes pedestrian-oriented neighborhoods that are an asset to the communities in which they occur. The circulation policies are as follows (WRCOG 2013):

1. Promote linkages between transit center stations and other modes of transportation, including pedestrian, bicycle, automobile, bus, Metrolink, commuter rail, and airport facilities.
2. Seek to create balanced station area circulation concepts that provide equitable access to all forms of transportation in these focused station areas.
3. Design roadways, pedestrian walkways, bikeways, and transit routes to minimize conflicts between different modes of transportation that occupy the same or proximate rights-of-way.
4. When modifying the existing street network, encourage creation of walkable blocks, and an overall system which pedestrians can perceive and understand.

City of Riverside General Plan

AIR QUALITY ELEMENT

The City's General Plan Air Quality Element contains policies to reduce air pollution and GHG emissions from mobile sources. Specific policies within the Air Quality Element require cooperation with local, State, and federal jurisdictions to reduce VMT; development of trip reduction plans to promote telecommuting; minimize traffic hazards and delays through highway maintenance, rapid emergency response, and debris removal; emphasis on use of multi-modal transportation; and encouragement of the use of alternative fuels (City of Riverside 2007).

CIRCULATION AND COMMUNITY MOBILITY ELEMENT

The City's General Plan Circulation and Community Mobility Element contains policies to facilitate roadway improvements and construction to alleviate congestion and air pollution, construct and maintain a multi-modal transportation system, support incorporation of SCAG's RTP into the City's transportation system, reduce risk posed to children and residents by vehicular traffic on local roadways, and ensure adequate parking (City of Riverside 2018).

Riverside Municipal Code

TITLE 10

Title 10 of the Riverside Municipal Code establishes regulations for vehicles and traffic within the City. Specific chapters within Title 10 establish regulations including, but not limited to, traffic control devices, curb address paintings, speed regulations, turning movements, pedestrian regulations, and bicycles (City of Riverside 2022a).

TITLE 16, CHAPTER 16.64

Riverside Municipal Code Chapter 16.64 establishes the City's authority to collect transportation impact fees for nonresidential units, residential units, and mobile home space. Funds collected from transportation impacts fees are used solely for the construction of improvements to City Council-designated streets in order to increase or improve the transportation capacity of such streets (City of Riverside 2022b).

TITLE 19, CHAPTER 19.580

Riverside Municipal Code Chapter 19.580 establishes regulations for parking to minimize traffic congestion, ensure access to projects by emergency vehicles, ensure parking areas are designed and operate in a compatible manner with surrounding land uses, and ensure parking demands are met throughout the City. Section 19.580.060(D) provides incentives for a project to implement VMT reduction measures (City of Riverside 2022c).

4.17.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Transportation to assess the proposed project.

Would the proposed project:

- a. Conflict with an applicable program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?
- b. Conflict or be inconsistent with CEQA Guidelines Section 15064.3(b)?
- c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?
- d. Result in inadequate emergency access?

As detailed in the TIA (Appendix H), the analysis of project impacts under threshold “a” utilizes the following thresholds of significance. Significant impacts would occur if the proposed project or project-related mitigation measures would:

- Substantially disrupt existing pedestrian facilities. This can include adding new vehicular, pedestrian, or bicycle traffic at locations experiencing pedestrian safety concerns such as an adjacent crosswalk or school, particularly if the added traffic reduces the number of pedestrian acceptable gaps at an unsignalized crossing or causes queues to spillback through pedestrian crossings.
- Substantially disrupt existing bicycle facilities.
- Substantially disrupt existing transit services or facilities. This includes disruptions caused by proposed project driveways on transit streets, impacts to transit stops/shelters, and impacts to transit operations from traffic improvements proposed or resulting from a project.

As detailed in the TIA (Appendix H), the analysis of project impacts under threshold “b” utilizes the following thresholds of significance, consistent with OPR guidance (2018):

- A project would result in a significant project-generated VMT impact if either of the following conditions are satisfied:
 - The Baseline Plus Project generated VMT per Service Population exceeds 15 percent below the WRCOG baseline VMT per Service Population (i.e., 32.66 VMT)
 - The Cumulative Plus Project generated VMT per Service Population exceeds 15 percent below the WRCOG baseline VMT per Service Population (i.e., 31.34 VMT)
- The project’s effect¹ on VMT would be considered significant if the cumulative link-level boundary² WRCOG region VMT per Service Population increases under the Cumulative Plus Project condition compared to Cumulative (2045) conditions

Methodology

The transportation analysis that follows is based on the September 2023 TIA prepared for the proposed project by Fehr and Peers (Appendix H). The full analysis methodology contained in the TIA is summarized below.

Trip generation estimates for the proposed project were estimated using a combination of student enrollment projections, proposed programmatic operations regarding full-time and part-time students, and anticipated travel patterns.

The Riverside County Transportation Model (RIVCOM) was used to develop traffic volume and VMT forecasts. The current RIVCOM uses a 2018 base year, a 2045 future year, and socioeconomic data consistent with SCAG’s 2020 RTP/SCS (Appendix H). As part of the RIVCOM review, both the base year and future year roadway networks were examined for consistency with existing conditions and planned roadway improvements. The future year roadway network was compared to the 2020

¹ This methodology is also described by OPR as an “Absolute” VMT metric. More specifically OPR’s Technical Advisory, suggests that (1) “Projects that decrease [total] VMT in the project area compared to existing conditions should be presumed to have a less than significant transportation impact” (CEQA Guidelines Section 15064.3[b][1]); (2) “Transportation projects that reduce, or have no impact on, VMT should be presumed to cause a less than significant transportation impact” (CEQA Guidelines Section 15064.3[b][2]); (3) “Where development decreases [total] VMT, lead agencies should consider the impact to be less than significant” (OPR Technical Advisory [2018], p. 16); and (4) “Where a project replaces existing VMT-generating land uses, if the replacement leads to a net overall decrease in VMT, the project would lead to a less-than-significant transportation impact” (OPR Technical Advisory [2018], p. 17) (Appendix H).

² Link-level boundary analysis is the sum of all weekday VMT on a roadway network within a designated boundary divided by service population (Appendix H).

SCAG RTP/SCS to verify that only projects planned to be in place before 2045 were assumed in the network under cumulative conditions. One project listed in the Constrained RTP Project List planned to be complete prior to 2045 is the widening of Iowa Avenue from four lanes to six lanes from Blaine Street to the north city limit of Riverside. This project has an estimated opening year of 2026.

VMT was estimated for the WRCOG region using the Origin/Destination (OD) method. The OD method for calculating VMT sums all weekday VMT generated by trips with at least one trip end in the TIA study area. The OD Method is completed after the fifth and final loops of assignment processing in the travel demand model are finished. Origins are all vehicle trips that start in a specific traffic analysis zone (TAZ), and destinations are all vehicle trips that end in a specific TAZ. The OD Method also accounts for external trips that have one trip end outside of the model boundary.

Due to the unique nature of the proposed project's operating conditions, such as a variety of full-time and part-time students, varying bus usage, off-peak pick-up and drop-off, and varying trip lengths for students, a manual calculation of VMT for the proposed project was conducted. The VMT calculation used daily trip generation estimates multiplied by the average trip length for the various types of trips.

Impact Analysis

Threshold a: Would the proposed project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Impact TRA-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CONFLICT WITH A PROGRAM, PLAN, ORDINANCE, OR POLICY ADDRESSING THE CIRCULATION SYSTEM. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

According to the TIA prepared for the proposed project, the proposed project would not conflict with applicable programs, plans, ordinances, or policies in place to address pedestrian, bicycle, roadway, or transit facilities and services. A discussion of each type of facility is provided below.

Transit Facilities

Development of the proposed project would not result in changes that would significantly disrupt any of the existing transit routes adjacent to the project site or planned transit services. The proposed project would maintain or reconstruct any transit stops that are affected by development of the project while following the City's requirements (Appendix H). Therefore, the proposed project would not conflict with a program, plan, ordinance, or policy addressing transit facilities. This impact would be **less than significant**.

Roadway Facilities

Operation of the proposed project would not result in a change in existing transportation conditions related to roadway facilities because 1) the proposed project would include an internal roadway for buses and vehicles that would accommodate anticipated school-related traffic and would not disrupt existing traffic patterns; 2) the relocated T-Mobile Cell Tower is an existing feature on the project site that would be relocated immediately west of the project site and would not include an access driveway; and 3) the proposed utilities improvements would be located underground and would not induce new vehicle trips and existing aboveground features (i.e., roadways) would be

restored back to existing condition upon completion of construction. Therefore, the proposed project would not conflict with a program, plan, ordinance, or policy addressing roadway facilities. This impact would be **less than significant**.

Bicycle Facilities

Development of the proposed project would include a continued investment in improving the quality, safety, and character of the bicycling experience and ensuring it is developed with the principle of universal access in mind. The proposed project would reconstruct bicycle infrastructure at project site access points to maintain existing access in accordance with City requirements. As shown in Figure 3-4 in Section 3, *Project Description*, the proposed project would not encroach on or interfere with the City's planned Gage Canal Multipurpose Recreational Trail, which would travel adjacent to the Gage Canal from Palmyrita Street to the Riverside Sports Complex located on and adjacent to the project site just north of Blaine Street (City of Riverside 2021a). The secondary egress driveway on Blaine Street would allow buses and UCR service vehicles to either turn left (west) or right (east), depending on their subsequent destinations. Buses and service vehicles turning out of this driveway would traverse the Gage Canal Multipurpose Recreational Trail's proposed crossing at Blaine Street. Bus activity would primarily occur on weekdays as buses depart from morning drop-off at approximately 8:00 a.m. (10 buses), mid-day drop-off/pick-up at approximately 12:30 p.m. (10 buses), and afternoon pick-up at approximately 3:30 p.m. (10 buses). This limited level of infrequent vehicle traffic over the proposed trail would not substantially affect bicyclists' ability to utilize this trail. In addition, drivers of school buses and service vehicles would be required to comply with all traffic safety measures installed as part of the trail's Blaine Street crossing, such as crosswalk signs and devices. Accordingly, the proposed project would not conflict with a program, plan, ordinance, or policy addressing bicycle facilities. This impact would be **less than significant**.

Pedestrian Facilities

Development of the proposed project would include a continued investment in improving the quality, safety, and character of the pedestrian experience and ensuring it is developed with the principle of universal access in mind. The proposed project would reconstruct pedestrian infrastructure at project site access points to maintain existing access in accordance with City requirements. As previously stated, the proposed project would not encroach on or interfere with the City's planned Gage Canal Multipurpose Recreational Trail, and buses exiting the project site would not interfere with trail users because of the limited level of infrequent vehicle traffic over the proposed trail and required compliance of drivers of school buses and service vehicles with all traffic safety measures installed as part of the trail's Blaine Street crossing, such as crosswalk signs and devices. For similar reasons, the proposed project would not encroach or interfere with the City's additional planned multipurpose pedestrian trail segment that would run from the portion of the Gage Canal adjacent to the proposed STEM Education Center location east along the southern side of Blaine Street and south along the eastern side of Canyon Crest Drive (City of Riverside 2021b). Therefore, the proposed project would not conflict with a program, plan, ordinance, or policy addressing pedestrian facilities. This impact would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project conflict or be inconsistent with CEQA Guidelines Section 15064.3(b)?

Impact TRA-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT CONFLICT OR BE INCONSISTENT WITH CEQA GUIDELINES SECTION 15064.3(B). THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Construction

Construction of the proposed project would generate VMT associated with vehicle trips by workers, material deliveries, and hauling to and from the project site. Historically, construction trips at UC Riverside have been managed to minimize the effect construction-related traffic has on the University and surrounding neighborhoods (Appendix H). The project site is in an urbanized area, and the proposed project would not involve large-scale construction activities that would have the potential to result in substantial increases in regional VMT because construction workers and materials would be primarily sourced locally. Therefore, construction of the proposed project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3(b). This impact would be **less than significant**.

Operation

Operation of the proposed STEM Education Center would generate VMT associated with vehicle trips by students, parents, faculty/staff, and visitors to the project site. Operation of the relocated T-Mobile Cell Tower and the proposed utilities improvements would not result in a change in existing VMT conditions because 1) the relocated T-Mobile Cell Tower is an existing feature on the project site that would be relocated immediately west of the project site and 2) the proposed utilities improvements would not induce new vehicle trips. Therefore, these components of the proposed project are not discussed further because they would result in no impact related to VMT.

VMT SCREENING

Local-serving projects may be presumed to have a less-than-significant impact on transportation absent substantial evidence to the contrary. Local-serving is defined by the City's *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (July 2020) as a project that would decrease the number of trips or the distance those trips travel to access the development, and the list of projects defined as local-serving by the City's guidelines include local-serving K-12 schools. K-12 schools can be presumed local-serving and have a less than significant VMT impact, absent substantial evidence to the contrary, if they only have students that reside locally in the boundary of the applicable school district (Appendix H).

The existing STEM Academy student enrollment consists mainly of students from the RUSD service area as well as some students from nearby communities such as Moreno Valley and Corona. However, at the October 7, 2021 RUSD board meeting, it was unanimously decided there would be no allocation of attendance eligibility at the existing STEM Academy for students who are residing outside of RUSD boundaries beginning with the 2022-2023 5th grade class and going forward for the following school years. This change would also affect the student enrollment for the proposed project because the 2022-2023 5th grade class would be the 2029-2030 12th grade class enrolled at

the proposed STEM Education Center, and the proposed project would have no students enrolled from outside the RUSD boundary in 2030 and beyond. Therefore, within two years of its opening year, the proposed project would only serve students from the RUSD boundaries, which would be considered local in the context of the City’s VMT guidelines (City of Riverside 2020). As such, the proposed project meets the requirements of a local-serving project and is screened out from further VMT analysis (Appendix H). Therefore, the proposed project would not conflict with or be inconsistent with CEQA Guidelines Section 15064.3(b), and impacts would be **less than significant**.

QUANTITATIVE VMT ANALYSIS

Because the proposed project meets the requirements of a local-serving project and can be presumed to have a less-than-significant impact on VMT, a full quantitative VMT analysis for the proposed project is not required. However, a VMT analysis was conducted in the TIA for informational purposes, and the results are included below.

The TIA prepared for the proposed project includes an analysis of VMT for the WRCOG region and proposed project (Appendix H). Table 4.17-3 presents the estimated project VMT per service population with a comparison to VMT per service population for the WRCOG. As shown therein, the proposed project is anticipated to generate a daily VMT per service population of 12.03 VMT, which is approximately 63 percent lower³ than the daily VMT per service population of the WRCOG region. Consequently, the VMT per service population generated by the proposed project would not exceed the threshold of at least 15 percent below per capita VMT under existing conditions (i.e., 27.76 VMT). Therefore, the proposed project would not conflict with or be inconsistent with CEQA Guidelines Section 15064.3(b), and impacts would be **less than significant**.

Table 4.17-3 Baseline and Proposed Project VMT

	Total Daily VMT	Service Population	Daily VMT Per Service Population
WRCOG Region	90,203,331	2,762,109	32.66
Proposed Project	15,164	1,260	12.03

WRCOG = Western Riverside Council of Governments; VMT = vehicle miles traveled

Note: Service population includes employees, residents, and grade 9-12 students.

Source: Appendix H

Secondary Impacts of Displaced Recreational Activities

As discussed in Section 4.16, *Recreation*, the proposed project would require removal of the existing open recreation field on-site, which would result in the re-location of existing on-site UCR and City recreational activities to other nearby UCR and City facilities. Under existing baseline conditions, this re-location of City recreational activities would occur regardless of the proposed project on September 17, 2027, which is the date on which the City’s non-exclusive license for use of the open recreation field on-site will expire. Therefore, assuming project construction begins as early as January 1, 2026, these effects on recreational facility usage would only be attributable to the proposed project for a period of approximately 20.5 months.

Upon the start of project construction, existing users of the open recreational field on-site may have to travel shorter or further distances to reach other nearby UCR and City facilities to engage in recreational activities previously conducted on the project site. Several other UCR and City recreational facilities are available within two miles of the project site, as outlined in Section 4.16,

³ A 63-percent reduction was calculated as follows: $1.0 - (12.03 \text{ VMT} / 32.66 \text{ VMT}) = 0.63$

Recreation. The distance traveled by any given user would depend on their origin and destination locations, which could vary widely, especially based on what recreational facilities the user desires (e.g., soccer fields, softball fields, open fields).

For the purposes of CEQA, estimating the net change in overall and per capita VMT associated with this change would be speculative because of the multiple unknown variables and data involved, such as the origin and destination locations of each existing user of the open recreational field. As stated in Sections 15144, 15145, and 15146(b) of the CEQA Guidelines, the lead agency is not required to, nor should it, engage in speculation or conjecture. As stated in *CEQA Guidelines* Section 15145, if, after thorough investigation, a lead agency finds that a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact. Therefore, a discussion of secondary VMT impacts of displaced recreational activities is not evaluated herein.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold c: Would the proposed project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible use (e.g., farm equipment)?

Impact TRA-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT SUBSTANTIALLY INCREASE HAZARDS DUE TO A GEOMETRIC DESIGN FEATURE OR INCOMPATIBLE USES. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Construction

Project construction would require the use of heavy-duty off-road equipment and heavy-duty on-road vehicles. Heavy-duty on-road vehicles would generally use Blaine Street, Canyon Crest Drive, and University Avenue to access the I-215/SR 60 freeway to travel to and from the project site, thus avoiding residential streets. Construction-related trips would primarily occur during off-peak hours in the early morning and midday and would thus largely avoid contributing to peak hour congestion. In addition, during construction, temporary lane closures may be required to install driveways and infrastructure, (including for staging construction equipment during installation of proposed utilities improvements), but no road closures are anticipated. Temporary use of construction equipment would be carried out by construction personnel who have necessary training and/or certifications to operate such equipment, thereby minimizing any conflicts due to the use of construction equipment. Therefore, project construction would not substantially increase hazards due to a geometric design feature or incompatible uses, and impacts would be **less than significant**.

Operation

Operation of the relocated T-Mobile Cell Tower and the proposed utilities improvements would not result in a change in existing geometric design features or introduce incompatible uses because 1) the relocated T-Mobile Cell Tower is an existing feature on the project site that would be relocated immediately west of the project site and would not include an access driveway, and 2) the proposed

utilities improvements would be located underground and would not induce new vehicle trips and existing aboveground features (i.e., roadways) would be restored back to existing conditions upon completion of construction. Therefore, the following discussion focuses on the proposed STEM Education Center.

INCOMPATIBLE USES

The proposed project would be developed on UCR's campus and surrounded by urban development. Operation of the proposed project would not introduce any incompatible uses, including vehicles or equipment, to the project site or surrounding area. Therefore, project operation would not substantially increase hazards due to incompatible uses, and impacts would be **less than significant**.

GEOMETRIC DESIGN FEATURES

The proposed project would not include new streets that could introduce hazardous geometric design features. Operation of the proposed project would not require the substantial change of existing street designs. Parking spaces, the drop-off area, and bus lanes would be designed to comply with standards of the DSA and the Campus Fire Marshal, which would preclude the introduction of hazardous geometric design features such as sharp curves. Furthermore, a traffic signal would be installed at the main project driveway on Canyon Crest Drive to allow for protected turns into and out of the proposed location of the STEM Education Center, and a stop sign would be installed at the second driveway. Therefore, project operation would not substantially increase hazards due to a geometric design feature, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold d: Would the proposed project result in inadequate emergency access?

Impact TRA-4 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD POTENTIALLY RESULT IN INADEQUATE EMERGENCY ACCESS. THEREFORE, IMPLEMENTATION OF MITIGATION MEASURE MM WF-1 WOULD BE REQUIRED TO REDUCE IMPACTS TO LESS THAN SIGNIFICANT.

Construction

Construction of the proposed project would involve decommissioning existing cell towers, removal of existing landscape and hardscape, and the development of a new structure, infrastructure, and site improvements on the project site. In addition, the existing T-Mobile Cell Tower would be relocated to the northern portion of the UCR Baseball Complex immediately adjacent to the west of the project site. During construction, temporary lane closures may be required to install driveways and infrastructure, (including for staging construction equipment during installation of proposed utilities improvements), but no road closures are anticipated. The Campus Fire Marshal would review plans during the plan review process to ensure adequate ingress/egress on the project site during construction activities is made available to emergency vehicles. Nevertheless, project construction activities would still have the potential to result in inadequate emergency access at the

project site and in the surrounding area, and impacts would be potentially significant without mitigation. However, implementation of **Mitigation Measure MM WF-1** would reduce potential impacts to **less than significant with mitigation incorporated** by requiring preparation and implementation of a construction management plan.

In addition, as outlined in the Draft EIR for the 2021 LRDP, UCR would also require Continuing Best Practices (CBPs) as conditions of project approval. CBP WF-1 would ensure, to the extent feasible, that at least one unobstructed lane in both directions on campus roadways is maintained, specifically in the event of a fire emergency. CBP WF-2 would have the Campus Fire Marshal disclose roadway closures to the City of Riverside Fire Department and identifies alternative travel routes, if necessary (UCR 2021b). Implementation of these CBPs would further reduce the project's impact related to emergency access, which would be less-than-significant with **Mitigation Measure MM WF-1** incorporated.

Operation

During operation, the project site would be accessible from existing roadways such as Canyon Crest Drive and Blaine Street. These roadways would provide multiple ingress and egress points for emergency vehicles to access the project site. The relocated T-Mobile Cell Tower would be accessible from Blaine Street. Roadways in the vicinity of the project site are not designated evacuation routes in the City's General Plan Public Safety Element (City of Riverside 2021c). The nearest major arterial roadway considered an evacuation route by the City is Iowa Avenue to the I-215/SR 60 freeway, located approximately 0.4 mile west of the project site. Operation of the proposed project would not interfere or substantially alter public rights-of-way. As shown in Figure 2-4 in Section 2, *Project Description*, the proposed site plan includes space for vehicles and buses to queue on-site for student drop-off and pick-up, which would minimize the potential for vehicles and buses to queue outside the project site on Canyon Crest Drive.

In addition, the proposed project would comply with the requirements of the California Fire Code (Title 24 CCR Part 9) that include design and fire-related Means of Egress, including Fire Apparatus Access Road width requirements. The DSA and the Campus Fire Marshal would review project design and circulation plans during the plan review process, and the Campus Fire Marshal would inspect the proposed project prior to the occupancy of the building to ensure adequate ingress/egress on the project site is made available at all times to emergency vehicles. The Campus Fire Marshal and Federal Communications Commission/Federal Aviation Administration would also review the relocated T-Mobile Cell Tower to ensure access to the T-Mobile Cell Tower meets all relevant codes and requirements. Furthermore, operation of the proposed utilities improvements would not result in inadequate emergency access because it would be located underground and would not induce new vehicle trips and existing aboveground features (i.e., roadways) would be restored back to existing conditions upon completion of construction. Therefore, operation of the proposed project would not result in inadequate emergency access, and impacts would be **less than significant**.

Mitigation Measures

Mitigation Measure MM WF-1 outlined in Section 4.20, *Wildfire*, would be required to address potential impacts to inadequate emergency access. In addition, CBP WF-1 and WF-2 outlined in Section 4.20, *Wildfire*, would be included as conditions of project approval.

Significance After Mitigation

Impacts would be less than significant with mitigation incorporated.

4.17.5 Cumulative Impacts

To analyze cumulative transportation impacts, this Draft EIR considered anticipated development within a five-mile radius of the project site, consistent with Table 4-1 of Section 4, *Environmental Impact Analysis*.

The laws, regulations, and policies outlined in Section 4.17.3, *Regulatory Framework*, and discussed under Impact TRA-1 would apply to surrounding development in the same manner as they apply to the proposed project, thereby avoiding the potential for significant cumulative conflicts between applicable circulation system policies and surrounding development. Therefore, cumulative impacts related to conflict with applicable programs, plans, ordinances, or policies addressing the circulation system would be **less than significant**.

The cumulative impact of an increase in regional VMT in the cumulative setting due to surrounding development can be potentially significant. Pursuant to OPR guidance, a project that falls below an efficiency-based threshold that is aligned with long-term environmental goals and relevant plans would have no cumulative impact distinct from the project impact (Appendix H). Nevertheless, the TIA included additional cumulative VMT analysis. Table 4.17-4 includes the results of the cumulative VMT analysis. As shown therein, the proposed project’s estimated VMT would be approximately 62 percent below the WRCOG cumulative VMT per service population under Cumulative Plus Project conditions, which would not exceed the threshold of 15 percent below the WRCOG baseline VMT per Service Population (i.e., 26.64 VMT).

Table 4.17-4 Cumulative Vehicle Miles Traveled Analysis

	Total Daily VMT	Service Population	Daily VMT Per Service Population
Proposed Project	15,164	1,260	12.03
WRCOG Region	120,042,276	3,830,117	31.34

Service population includes employees, residents, and grade 9-12 students
 Source: Appendix H

A project’s effect on VMT is also a measure of the potential effects of a project because it captures the combined effect of new VMT, shifting of existing VMT to/from other neighborhoods, and/or shifts in existing VMT to alternate travel routes or modes. Projects that have a positive effect on VMT result in a decrease in regional VMT Per Service Population. As shown in Table 4.17-5, the regional daily VMT Per Service Population would be reduced with implementation of the proposed project. Accordingly, the proposed project’s contribution to cumulative VMT impacts would **not be cumulatively considerable (less than significant)**.

Table 4.17-5 Proposed Project’s Cumulative Effect on VMT

	Total Daily VMT	Service Population	Daily VMT Per Service Population
WRCOG Region with Proposed Project	62,585,391	3,831,377	16.335
WRCOG Region	62,570,221	3,830,117	16.336

Service population includes employees, residents, and grade 9-12 students
 Source: Appendix H

The introduction of hazards due to geometric design features or incompatible uses is typically related to site- and project-specific characteristics and conditions and would not be significantly affected by other development within the cumulative setting. Therefore, cumulative impacts related to geometric design features and incompatible uses would be **less than significant**.

Emergency access could be delayed in the cumulative setting if cumulative construction projects result in substantial closure of roads that could delay emergency access. However, the proposed project would not result in road closures. In addition, as discussed under Impact TRA-4, the proposed project would implement a construction management plan that would require coordination with applicable fire and police agencies to identify and implement detours for emergency vehicles. Furthermore, the construction management plan requires coordination with other projects under construction near the project site so that an integrated approach to construction-related traffic is developed and implemented, thereby minimizing the proposed project's contribution to cumulative emergency access impacts. Therefore, the proposed project's contribution to cumulative emergency access impacts would **not be cumulatively considerable with mitigation incorporated (less than significant with mitigation incorporated)**.

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4.18 Tribal Cultural Resources

4.18.1 Introduction

This section analyzes potential impacts to tribal cultural resources from the implementation of the proposed project. The analysis in this section has been prepared in accordance with CEQA Guidelines Section 15064.5 and considers potential impacts to Tribal Cultural Resources (TCR). This section includes a summary of consultation conducted by UCR with Native American groups as part of the Assembly Bill (AB) 52 tribal consultation process. Potential impacts to archaeological and historical resources are addressed in Section 4.5, *Cultural Resources*, and potential impacts to paleontological resources are addressed in Section 4.7, *Geology and Soils*.

4.18.2 Existing Conditions

Regional Setting

The project site is situated within the traditional territory of the Cahuilla, Gabrieleño/Tongva, Luiseño, and Serrano (Heizer 1978; Bean 1978; Kroeber 1925).

Cahuilla

The term Cahuilla likely derived from the native word *káwiya*, meaning “master” or “boss” (Bean 1978: 575). Traditional Cahuilla ethnographic territory extended west to east from the present-day city of Riverside to the central portion of the Salton Sea in the Colorado Desert, and south to north, from the San Jacinto Valley to the San Bernardino Mountains (Kroeber 1925).

The Cahuilla, like their neighbors the Luiseño and Juaneño to the west and the Cupeño to the south, are speakers of a Cupan language. Cupan languages are part of the Takic linguistic subfamily of the Uto-Aztecan language family. It is thought the Cahuilla migrated to southern California approximately 2,000 to 3,000 years ago, most likely from the southern Sierra Nevada Mountain ranges of east-central California with other Takic speaking social groups (Moratto 1984:559).

Cahuilla social organization was hierarchical and contained three primary levels (Bean 1978:580). The highest level was the cultural nationality, encompassing everyone speaking a common language. The next level included the two patrimoieties of the Wildcats (*tuktum*) and the Coyotes (*‘istam*). Every clan of the Cahuilla fell into one or the other of these moieties. The lowest level consisted of the numerous political-ritual-corporate units called sibs, or a patrilineal clan (Bean 1978: 580).

Cahuilla villages were usually located in canyons or on alluvial fans near a source of accessible water. Each lineage group maintained their own houses (*kish*) and granaries and constructed ramadas for work and cooking. Sweat houses and song houses (for non-religious music) were also often present. Each community also had a separate house for the lineage or clan leader. A ceremonial house, or *kiš ámnawet*, associated with the clan leader was where major religious ceremonies were held. Houses and ancillary structures were often spaced apart, and a “village” could extend over a mile or two. Each lineage had ownership rights to various resource collecting locations, “including food collecting, hunting, and other areas. Individuals also owned specific areas or resources, e.g., plant foods, hunting areas, mineral collecting places, or sacred spots used only by shamans, healers and the like” (Bean 1978:382).

The Cahuilla hunted a variety of game, including mountain sheep, cottontail, jackrabbit, mice, and wood rats, as well as predators such as mountain lion, coyote, wolf, bobcat, and fox. Various birds were also consumed, including quail, duck, and dove, plus various types of reptiles, amphibians, and insects. A wide variety of tools and implements were employed by the Cahuilla to gather and collect food resources. For the hunt, these included the bow and arrow, traps, nets, slings and blinds for hunting land mammals and birds, and nets for fishing. Rabbits and hares were commonly brought down by the throwing stick; however, when communal hunts were organized for these animals, the Cahuilla often utilized clubs and very large nets.

Foodstuffs were processed using a variety of tools, including portable stone mortars, bedrock mortars and pestles, basket hopper mortars, manos and metates, bedrock grinding slicks, hammerstones and anvils, and many others. Food was consumed from a number of woven and carved wood vessels and pottery vessels. The ground meal and unprocessed hard seeds were stored in large finely woven baskets, and the unprocessed mesquite beans were stored in large granaries woven of willow branches and raised off the ground on platforms to keep it from vermin. Pottery vessels were made by the Cahuilla and also traded from the Yuman-speaking groups across the Colorado River and to the south.

According to Kroeber (1925), Cahuilla subsistence relied primarily on plant foods; he recorded 60 varieties of plants being utilized. Fruits in particular would be collected and eaten, but seeds and nuts were more of a staple. These would be processed like the plum pit, which was crushed, leached, and boiled. Pine nuts and other larger seeds would be roasted (Kroeber 1925). Mortars and pestles would be used to process plant foods, especially the mesquite beans, which were first dried and stored in basket granaries (Hooper 1917). Cahuilla had adopted limited agricultural practices by the time Euro-Americans traveled into their territory in the early nineteenth century. Corn, pumpkins, melons, and watermelons were irrigated with walk-in wells, possibly from pot-irrigation (Schaefer and Laylander 2007). Bean (1978: 578) has suggested their “proto-agricultural techniques and a marginal agriculture” consisting of beans, squash and corn may have been adopted from the Colorado River groups to the east.

By 1819, several Spanish mission outposts, known as *assistencias*, were established near Cahuilla territory at San Bernardino and San Jacinto. Cahuilla interaction with Europeans at this time was not as intense as it was for native groups living along the coast. This was likely due to the local topography and lack of water, which made the area less attractive to colonists. However, by the 1820s, European interaction increased as mission ranchos were established in the region and local Cahuilla were employed to work on them.

The Bradshaw Trail was established in 1862 and was the first major east-west stage and freight route through the Coachella Valley. Traversing the San Gorgonio Pass, the trail connected gold mines on the Colorado River with the coast. Bradshaw based his trail on the Cocomaricopa Trail, with maps and guidance provided by local Native Americans. Journals by early travelers along the Bradshaw Trail told of encountering Cahuilla villages and walk-in wells during their journey through the Coachella Valley. The continued influx of immigrants into the region introduced the Cahuilla to European diseases. The single worst recorded event was a smallpox epidemic that swept through Southern California in 1862-63, significantly reducing the Cahuilla population. By 1891, only 1,160 Cahuilla remained within what was left of their territory. The indigenous population of this area had been previously estimated at 6,000 to 10,000 individuals. By 1974, approximately 900 people claimed Cahuilla descent, most of whom resided on reservations (Bean 1978: 583-584).

Between 1875 and 1891, the United States established ten reservations for the Cahuilla within their traditional territory. These reservations include: Agua Caliente, Augustine, Cabazon, Cahuilla, Los

Coyotes, Morongo, Ramona, Santa Rosa, Soboba, and Torres-Martinez (Bean 1978: 585). Four of the reservations are shared with other groups, including the Chemehuevi, Cupeño, and Serrano. The Soboba and Morongo Reservations, which includes people of both Luiseño, Cahuilla, and Cupeño descent, are closest to the project site.

Gabrieleño/Tongva

The name “Gabrieleño” denotes those people who were administered by the Spanish from the San Gabriel Mission. It includes people from the Gabrieleño area proper, as well as other social groups nearby (Kroeber 1925, Plate 57; Bean and Smith 1978: 538). The term Gabrieleño was imposed upon the Tribe by Spanish missionaries. Thus, descendants have chosen to use their original name, Tongva (Welch 2006). This term is used in the remainder of this section to refer to the pre-contact inhabitants of the Los Angeles Basin and their descendants.

Archaeological evidence points to the Tongva arriving in the Los Angeles Basin sometime around 500 Before Common Era (BCE), and the Tongva note their presence in the area going back thousands of years (Villa 2017). Today, the Tongva people are active in protecting their Tribal cultural resources in the greater Los Angeles Basin and three Channel Islands: present-day San Clemente, San Nicolas, and Santa Catalina. The Tongva language belongs to the Takic branch of the Uto-Aztecan language family, which can be traced to the Great Basin region (Mithun 2001). This language family includes dialects spoken by the nearby Juaneño and Luiseño to the southeast, the Serrano and Cahuilla to the northeast, and the Tataviam to the northwest. Yet, it is considerably different from the Chumash people living to the northwest and the Diegueño people (including the Ipai, Tipai, and Kumeyaay) to the south.

The Tongva established large, permanent villages in the fertile lowlands along rivers and streams, and in sheltered areas along the coast. A total tribal population is estimated to have been at least 5,000 in 1770 (Bean and Smith 1978: 540), but recent ethnohistoric work suggests a number closer to 10,000 (O’Neil 2002). Political organization followed a patrilocal and patrilineal pattern. Typically, the oldest son would lead a family. Chieftainship was also passed down patrilineally. A *Chari*, or chief of a village or political grouping, was separate from religious leadership (King 2011).

At the time of Spanish contact, the basis of Tongva religious life was the Chinigchinich cult, centered on the last of a series of heroic mythological figures. Chinigchinich gave instruction on laws and institutions and taught people how to dance, the primary religious act for this society. He later withdrew into heaven, where he rewarded the faithful and punished those who disobeyed his laws (Kroeber 1925: 637–638). The Chinigchinich religion seems to have been relatively new when the Spanish arrived. It was spreading south into the Southern Takic groups as Christian missions were being built. Elements of Chinigchinich beliefs suggest it was a syncretic mixture of Christianity and native religious practices (McCawley 1996: 143–144).

Houses constructed by the Tongva were large, circular, domed structures made of willow poles and thatched with tule, and they sheltered up to 50 people each (Bean and Smith 1978). Other structures served as sweathouses, menstrual huts, ceremonial enclosures, and probable communal granaries. Cleared fields for races and games, such as lacrosse and pole throwing, were created adjacent to Tongva villages (McCawley 1996: 27).

The Tongva subsistence economy was centered on gathering and hunting. The surrounding environment was rich and varied, and the Tribe exploited the mountains, foothills, valleys, and deserts, including riparian and estuarine areas, as well as open and rocky coastal ecological niches. Like most Native Californians, acorns were the staple food. By the time of the early Intermediate

Period, acorn processing was an established industry. Acorns were supplemented by the roots, leaves, seeds, and fruits of a wide variety of flora (e.g., islay, cactus, yucca, sages, and agave). Freshwater and saltwater fish, shellfish, birds, reptiles, insects, and large and small mammals were also consumed (Kroeber 1925: 631–632; Bean and Smith 1978: 546, McCawley 1996: 119–123, 128–131).

The Tongva used a wide variety of tools and implements to gather food resources. These included the bow and arrow, traps, digging sticks, nets, blinds, throwing sticks and slings, spears, harpoons, and hooks. The Tongva made oceangoing plank canoes (known as a *ti'at*) capable of holding six to 14 people that used for fishing, travel, and trade between the mainland and the Channel Islands. Tule reed canoes were employed for near-shore fishing (McCawley 1996: 117–127). Tongva people processed food with a variety of tools, including hammerstones and anvils, mortars and pestles, *manos* and *metates*, strainers, leaching baskets and bowls, knives, bone saws, and wooden drying racks. Food was consumed from a variety of vessels. Catalina Island steatite was used to make *ollas* and cooking vessels (Kroeber 1925: 629, McCawley 1996: 129–138).

Deceased Tongva were either buried or cremated. Inhumation was more common on the Channel Islands and the neighboring mainland coast, and cremation was more predominate on the remainder of the coast and in the interior (Harrington 1942; McCawley 1996: 157). With the conquering and enslavement of the Tongva people beginning in the late 1700's by Spanish missionaries, cremation essentially ceased during the Post-Contact Period (McCawley 1996: 157).

Today the Gabrieleño/Tongva people continue to inhabit the Los Angeles Basin (Tongvar) and continue to advocate for the preservation and continued practice of their cultural heritage and language. At least five groups tie their ancestral lineage to the Gabrieleño/Tongva people: the Gabrieleño Band of Mission Indians - Kizh Nation, the Gabrieleño/Tongva San Gabriel Band of Mission Indians, the Gabrieleño/Tongva Nation of the Greater Los Angeles Basin, the Gabrieleño-Tongva Tribe, and the Gabrieleño Tongva Indians of California Tribal Council.

Luisseño

The traditional territory of the Luisseño extends along the coast of modern-day Southern California in San Diego and Riverside Counties, spanning between Aliso Creek in the north down to Agua Hedionda Creek in the south. The territory is recorded as far inland as Palomar Mountain in the south and Lake Elsinore in the north (Kroeber 1925; Bean and Shipek 1978). The population of the Luisseño prior to the arrival of Europeans is believed to be approximately 3,500 (O'Neil 2002). Linguists classify the Luisseño language as part of the Cupan group of the Takic languages, which falls under the larger Uto-Aztecan language family with origins in the Great Basin (Bean and Shipek 1978; Mithun 2001: 539). Linguistic studies suggest that Takic-speaking immigrants from the Great Basin displaced Hokan speakers sometime after 500 BCE (Bean and Shipek 1978). The modern names of the Native American Tribes in San Diego County are derived from the Spanish mission period as well as rivers that were present in the tribal territory at the time of European contact. The Spanish applied the term Luisseño to Native Americans enslaved by the Spanish at Mission San Luis Rey, which included the Gheecham, Kheecham, and Aguas Calientes Indians. Prior to missionization, the Luisseño living in the area referred to themselves as the Payomkawichum (Bean and Shipek 1978; Mithun 2001: 539-540; Rincon Band of Luiseno Indians 2020). Neighbors of the Luisseño include the Juaneño, Gabrieleño, and Serrano to the north and northwest, the Diegueño to the south, and the Cahuilla to the east (Kroeber 1925).

Prior to European contact, the Luisseño lived in permanent, politically autonomous villages with associated seasonal camps for subsistence exploitation. Villages ranged in size from 50 to 400

people. Each village controlled a larger resource territory and maintained ties to other villages through trade and social networks. Trespassing in the resource area of another village was cause for war (Bean and Shipek 1978). Village structures consisted of dome-shaped dwellings (*kish*), sweat lodges, and a ceremonial enclosure (*vamkech*). Leadership in the villages focused on the chief, or *Nota*, and a council of elders or *puuplem*. The chief controlled religious, economic, and war-related activities. Religious leaders would have their own patrilineal clan along with other chiefless clans and individuals broken from other clans (Kroeber 1925; Bean and Shipek 1978).

Traditional Luiseño subsistence was focused on the acorn and supplemented by the gathering of other plant resources and shellfish as well as fishing and hunting. Plant foods typically included pine nuts, seeds from various grasses, manzanita, sunflower, sage, chia, lemonade berry, prickly pear, and lamb's-quarter. Common animal resources included deer, antelope, rabbit, quail, ducks, and other birds. Fish were exploited from nearby rivers and creeks. Marine fish and sea mammals were caught from the shore and dugout canoes. Shellfish collected from the shore included abalone, turban, mussels, clams, scallops, and other species (Bean and Shipek 1978). Traditional Luiseño pottery can be distinguished from other groups in the area and includes but is not limited to, an earthen vessel called *narungrush*, a wide mouth vessel called a *wiwlis*, a small mouth vessel called *nadungdamal*, and a vessel with two small mouths called a *papakamal*. The *narungrush* was utilized for keeping water cool and storing seeds, and *wiwlis* vessels were used for cooking food. The *nadungdamal* and *papakamal* vessels were used for carrying water (Sparkman 1908).

The traditional Luiseño religion is known as Chinigchinich, the last of a series of heroic mythological figures. The heroes were originally from the stars, and their sagas formed Luiseño religious beliefs. Ethnographers recorded that religious rituals took place in a brush enclosure that housed a representation of Chinigchinich. Recorded ritual ceremonies include puberty initiation rites, burial and cremation ceremonies, hunting rituals, and peace rituals (Kroeber 1925; Bean and Shipek 1978). Puberty ceremonies for both girls and boys would include painting pictographs and petroglyphs, categorized by archaeologist as the San Luis Rey style or "Luiseño Rectilinear Abstract." This style is characterized by zigzags, chevrons, straight lines, and diamond chains (DuBois and Kroeber 1908: 96; Hedges 2002).

Today there are seven bands of Luiseño people, including the San Luis Rey, Pala, Pauma, La Jolla, Rincón, Pechanga, and Sobóba. While the effects of Mission San Luis Rey since 1798 contributed heavily to a decline in traditional practices (White 1953), the Luiseño today have maintained a majority of their traditional customs and ceremonies with many Luiseño people continuing to speak their native language, sing traditional songs, and utilize oral history through story-telling (NativeTalk 2022).

Serrano

The Serrano occupied an area in and around the San Bernardino Mountains between approximately 450 and 3,350 meters (1,500 to 11,000 feet) above mean sea level. Their territory extended west of the Cajon Pass, east past Twentynine Palms, north of Victorville, and south to Yucaipa Valley. The Serrano language is part of the Serran division of a branch of the Takic family of the Uto-Aztecan linguistic stock (Mithun 2001:539, 543). The two Serran languages, Kitanemuk and Serrano, are closely related. Kitanemuk lands were northwest of Serrano lands. Serrano was spoken originally by a relatively small group located within the San Bernardino and Sierra Madre mountains, and the term "Serrano" has come to be ethnically defined as the name of the people in the San Bernardino Mountains (Kroeber 1925:611). The Vanyume, who lived along the Mojave River and associated Mojave Desert areas and are also referred to as the Desert Serrano, spoke either a dialect of

Serrano or a closely related language (Mithun 2001:543). Year-round habitation tended to be located on the desert floor, at the base of the mountains, and up into the foothills, with all habitation areas requiring year-round water sources (Bean and Smith 1978).

Most Serrano lived in small villages located near water sources (Bean and Smith 1978:571). Houses measuring 12 to 14 feet in diameter were domed and constructed of willow branches and tule thatching; they were occupied by a single extended family. Many of the villages had a ceremonial house, used both as a religious center and the residence of the lineage leaders. Additional structures within a village might include granaries and a large circular subterranean sweathouse. The sweathouses were typically built along streams or pools. A village was usually composed of at least two lineages. The Serrano were organized loosely along patrilineal lines and associated themselves with one of two exogamous moieties or “clans”—the Wahiyam (coyote) or the Tukum (wildcat).

The subsistence economy of the Serrano was one of hunting and collecting plant goods, with occasional fishing (Bean and Smith 1978:571). They hunted large and small animals, including mountain sheep, deer, antelope, rabbits, small rodents, and various birds, particularly quail. Plant staples consisted of seeds; acorn nuts of the black oak; piñon nuts; bulbs and tubers; and shoots, blooms, and roots of various plants, including yucca, berries, barrel cacti, and mesquite. The Serrano used fire as a management tool to increase yields of specific plants, particularly chía.

Trade and exchange were an important aspect of the Serrano economy. Those living in the lower-elevation, desert floor villages traded foodstuffs with people living in the foothill villages who had access to a different variety of edible resources. In addition to inter-village trade, ritualized communal food procurement events, such as rabbit and deer hunts and piñon, acorn, and mesquite nut-gathering events, integrated the economy and helped distribute resources that were available in different ecozones.

Contact between Serrano and Europeans was relatively minimal prior to the early 1800s. As early as 1790, however, Serrano began to be drawn into mission life (Bean and Vane 2002). More Serrano were relocated to Mission San Gabriel in 1811 after a failed indigenous attack on that mission. Most of the remaining western Serrano were moved to an *asistencia* built near Redlands in 1819 (Bean and Smith 1978:573).

A smallpox epidemic in the 1860s killed many indigenous southern Californians, including many Serrano (Bean and Vane 2002). Oral history accounts of a massacre in the 1860s at Twentynine Palms that may have been part of a larger American military campaign that lasted 32 days (Bean and Vane 2002:10). Surviving Serrano sought shelter at Morongo with their Cahuilla neighbors; Morongo later became a reservation (Bean and Vane 2002). Other survivors followed the Serrano leader, Santos Manuel, down from the mountains and toward the valley floors and eventually settled what later became the San Manuel Band of Mission Indians Reservation, formally established in 1891.

Both the San Manuel Band of Mission Indians and the Morongo Band of Mission Indians are federally recognized tribes and include Serrano. People of both tribes participate in cultural programs to revitalize traditional languages, knowledge, and practices.

Campus and Project Site Setting

As indicated in Section 4.5, *Cultural Resources*, a California Historical Resources Information System (CHRIS) records search of the project site and a one-mile radius around the project site was conducted at the Eastern Information Center (EIC) and a search of the Sacred Lands File (SLF) was conducted with the Native American Heritage Commission (NAHC). The EIC records search identified

55 previously recorded cultural resources within a one-mile radius of the project site, one of which is within the project site – the Gage Canal (Resource 33-004768). On April 19, 2022, the NAHC responded to UCR’s SLF request, stating that the results of the SLF search were negative (Appendix E).

Rincon Archaeologist Andrea Ogaz conducted a pedestrian survey of the proposed location of the STEM Education Center, T-Mobile Cell Tower Relocation Area, electrical feeder line upgrade alignment, and associated improvements area on September 16, 2022. Rincon conducted a pedestrian survey of the project site using transect intervals spaced 10 meters and oriented generally from north to south.¹ Because the electrical feeder line upgrade alignment is a paved roadway and there is no ground exposure, the survey of this area was limited to a visual inspection of exposed ground. No cultural resources were observed within the project site during the pedestrian survey; the portion of the Gage Canal within the project site is underground and was not visible during the survey (Appendix E).

4.18.3 Regulatory Framework

Federal

No existing federal laws or regulations related to TCR are applicable to the proposed project.

State

Assembly Bill 52 of 2014

AB 52 expanded CEQA by defining a new resource category, “tribal cultural resources.” AB 52 establishes that “a project with an effect that may cause a substantial adverse change in the significance of a TCR is a project that may have a significant effect on the environment” (Public Resources Code [PRC] Section 21084.2). AB 52 further states when feasible, the lead agency shall establish measures to avoid impacts that would alter the significant characteristics of a tribal cultural resource (PRC Section 21084.3). PRC Sections 21074 (a)(1)(A-B) define TCRs as “sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe” that meet either of the following criteria:

- a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC Section 5020.1(k).
- b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c). In applying the criteria set forth in PRC Section 5024.1(c), the lead agency shall consider the significance of the resource to a California Native American Tribe.

AB 52 also establishes a formal consultation process for California tribes regarding those resources. The consultation process must be completed before a CEQA document can be certified or adopted. AB 52 requires lead agencies “begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project.” Native American tribes to be included in the process are those that have requested notice of projects proposed in the jurisdiction of the lead agency.

¹ Because the sewer line extension alignment is located within a paved right-of-way with development conditions similar to the electrical feeder line upgrade alignment, the sewer line extension alignment was not surveyed.

Assembly Bill 275

AB 275 was designed to strengthen the California Native American Graves Protection and Repatriation Act of 2001 by revising various definitions including, among others, “the definition of ‘California Indian tribe’ to include both a tribe that meets the federal definition of Indian tribe and a tribe that is not recognized by the federal government, but that is a native tribe located in California that is on the list maintained by the Native American Heritage Commission,” as well as the “definition of ‘museum’ to specify it receives state funds.” AB 275 requires every state agency, as defined, with significant interaction with tribal issues, peoples, or lands, and requests the Regents of the University of California, to designate one or more liaisons for the purpose of engaging in consultation with California Native American tribes on the tribal contact list and educating the agency on topics relevant to the state’s relationship with those tribes. AB 275 also revises and recasts the process by which a direct lineal descendent or a California Indian tribe can request the return of human remains or cultural items.

University of California

Native American Cultural Affiliation and Repatriation Policy

The University of California’s Native American Cultural Affiliation and Repatriation Policy outlines policies, procedures, and responsibilities for achieving repatriation of Native American and Native Hawaiian ancestral human remains and cultural items to Tribes, Native Hawaiian Organizations, and Lineal Descendants. The document outlines procedures for establishing and maintaining systemwide and campus committees, engaging in consultation processes, creating Cultural Affiliation and/or State Cultural Affiliation Inventories and Summaries, handling requests for repatriation and/or disposition, and handling previously unreported holdings of human remains and cultural items. The latest iteration of this policy was adopted in December 2021 to incorporate new California Native American Graves Protection and Repatriation Act (CalNAGPRA) requirements as specified in AB 275. Key changes include (University of California Office of the President 2021):

- Definitions have been added or revised where needed to align with CalNAGPRA.
- As required by CalNAGPRA, deference to tribal traditional knowledge, oral histories, documentation, and testimonies is now indicated when determining State cultural affiliation, identifying cultural items under CalNAGPRA, and making decisions related to the CalNAGPRA repatriation process.
- In consultation with California Native American tribes, campuses must prepare preliminary inventories/summaries for submission to the NAHC.
- The AB 275 dispute procedures have been added.
- The AB 275 procedures for submissions of claims under CalNAGPRA have been incorporated.
- Flowcharts and corresponding narratives have been updated.

University of California, Riverside

UCR 2021 Long Range Development Plan

The 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP contains one objective and policy relevant to TCR Objective OS-5; that is to “demonstrate an increased commitment to preservation and enhancement of the natural

environment through the design and placement of future campus landscapes,” and its corresponding policy is to “protect the steep and natural hillsides on the southeast campus designated as an Open Space Reserve, to protect cultural resources and wildlife habitat, provide a visual backdrop to the campus, and protect against erosion” (UCR 2021).

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of this EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would therefore be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code section 53094.

City of Riverside General Plan

LAND USE AND URBAN DESIGN ELEMENT

The City of Riverside General Plan Land Use Element contains one policy related to TCRs that requires protection of prehistoric resources through consultations with the Native American tribe(s) identified by the NAHC pursuant to Government Code Section 65352.3 and as required by CEQA (City of Riverside 2019).

4.18.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Tribal Cultural Resources to assess the proposed project.

Would the proposed project:

- a. Cause a substantial adverse change in the significance of a tribal cultural resource, defined in PRC Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or
 - ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision of PRC Section 5024.1. In applying the criteria set forth in PRC Section 5024.1(c), the lead agency shall consider the significance of the resource to a California Native American tribe.

Methodology

PRC Section 21074 defines TCRs as “sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe” that are listed or determined eligible for California Register of Historical Resources listing, listed in a local register of historical

resources, or otherwise determined by the lead agency to be a TCR. Impacts related to TCRs were evaluated through the AB 52 tribal consultation process (see Appendix I).

In accordance with AB 52, UCR has conducted AB 52 consultation as the lead agency. To date, UCR has received six general requests for project notification pursuant to AB 52 (from the Agua Caliente Band of Cahuilla Indians [ACBCI], Torres-Martinez Desert Cahuilla Indians, Cahuilla Band of Indians, Pechanga Band of Indians [formerly Pechanga Band of Luiseño Indians], Yuhaaviatam of San Manuel Nation [formerly San Manuel Band of Mission Indians], and Rincon Band of Luiseño Indians). Additionally, RUSD has received general requests for project notification pursuant to AB 52 from the Gabrieleño Band of Mission Indians, which is a tribe not on UCR's AB 52 list. Because the proposed project is a joint effort between UCR and RUSD, UCR also included the Gabrieleño Band of Mission Indians in its AB 52 tribal consultation process. In April 2022, UCR provided these tribes with notification of the proposed project. In May 2023, updated notification was provided to the tribes to clarify the proposed project's components and acreage along with updated exhibits. A discussion of the AB 52 consultation process is provided below.

Agua Caliente Band of Cahuilla Indians (ACBCI)

On May 13, 2022, the ACBCI responded to the original AB 52 notice to request a copy of the records search and copies of any cultural resource documentation. UCR provided the requested documentation and sent an updated notification letter on May 1, 2023. Discussions with this Tribe are ongoing.

Cahuilla Band of Indians

The Cahuilla Band of Indians did not respond to the original notification letter sent in 2022, but did respond to the May 1, 2023 updated notification letter, requesting to consult on the proposed project and requesting to review all cultural resources documentation. UCR provided the requested documentation and consulted with the Cahuilla Band of Indians via Zoom on May 23, 2023 to review the proposed project, timeline, and draft mitigation measures. Following this meeting, the Cahuilla Band of Indians agreed to conclude consultation.

Gabrieleño Band of Mission Indians – Kizh Nation

UCR and the Gabrieleño Band of Mission Indians – Kizh Nation consulted via phone call on October 20, 2022, and the Tribe indicated it would defer to the Cahuilla Band of Indians because the project site is closer to the Cahuilla territory; therefore, consultation was concluded.

Pechanga Band of Indians

On May 13, 2022, the Pechanga Band of Indians responded to the original notice letter, indicating the project site is part of the *‘Atáaxum* (Luiseño) territory and requested tribal consultation and to be included in all distribution lists for public notices, public hearings, and scheduled approvals for the proposed project. UCR provided the Tribe with all documentation related to cultural and tribal cultural resources at the site and consulted with the Pechanga Band of Indians via zoom. The Tribe requested additional documentation, and consultation is ongoing.

Rincon Band of Luiseño Indians

On May 18, 2022, the Rincon Band of Luiseño Indians responded to the original notice letter noting the project site is within the Traditional Use Area² of the Luiseño people and within the Rincon Band's specific Area of Historic Interest (i.e., the geographic area for which they are interested in consulting) and requested copies of documentation related to cultural and tribal cultural resources at the site. UCR provided the requested documentation and consulted with the Tribe via Zoom on two occasions (September 27, 2022 and October 6, 2022). Consultation is ongoing.

Torres Martinez Desert Cahuilla

The Torres Martinez Desert Cahuilla Tribe responded on May 8, 2023 to the updated notification letter. UCR provided documentation related to cultural and tribal cultural resources at the site, and discussions are ongoing.

Yuhaaviatam of San Manuel Nation

On April 14, 2022 and May 10, 2022, the Tribe responded noting the name change from San Manuel Band of Mission Indians to Yuhaaviatam of San Manuel Nation. UCR provided documentation related to cultural and tribal cultural resources at the site, and discussions are ongoing.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project cause a substantial adverse change in the significance of a tribal cultural resource, defined in PRC Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

- i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC Section 5020.1(k), or
- ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria Public Resources Code Section 5024.1(c). In applying the criteria set forth in Public Resource Code Section 5024.1(c), the lead agency shall consider the significance of the resource to a California Native American tribe.

The following discussion addresses potential project impacts related to thresholds (a)(i) and (a)(ii).

Impact TCR-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD POTENTIALLY CAUSE A SUBSTANTIAL ADVERSE CHANGE IN THE SIGNIFICANCE OF A TRIBAL CULTURAL RESOURCE. THEREFORE, IMPLEMENTATION OF MITIGATION MEASURES MM TCR-1 AND MM TCR-2 WOULD BE REQUIRED TO REDUCE IMPACTS TO LESS THAN SIGNIFICANT.

As noted in Section 4.18.2, *Existing Conditions*, the SLF search results received from the Native American Heritage Commission on April 19, 2022, were negative for known sacred sites within the vicinity of the project site. In addition, no cultural resources were observed within the project site during the pedestrian survey (Appendix E).

² A Traditional Use Area is defined as the geographic area a Tribe traditionally occupies and uses.

As described previously, UCR sent notification letters to seven tribes (the ACBCI, Torres-Martinez Desert Cahuilla Indians, Cahuilla Band of Indians, Pechanga Band of Indians, Yuhaaviatam of San Manuel Nation, Rincon Band of Luiseño Indians, and Gabrieleño Band of Mission Indians – Kizh Nation) in April 2022 and sent updated notification letters in May 2023 pursuant to PRC 21080.3.1(b)(1). The AB 52 correspondence record is summarized under *Methodology*, and letters received are included as Appendix I.

Grading for the project site is expected to reach up to six feet below the ground. The T-Mobile Cell Tower Relocation Area would require excavations to secure the re-located cell tower, and trenching would be required for installation of the proposed utilities improvements. The project site has been previously disturbed from the construction, use, and maintenance of either the baseball fields, surface parking, UCR Baseball Complex, and/or roadways/hardscape. Additionally, the surrounding area has been previously disturbed and/or developed.

Although there are no known TCRs present within the project site, it is possible that ground disturbance during project construction could encounter unknown archaeological resources that may be considered TCRs. Additionally, based on the Preliminary Environmental Assessment (Appendix F), native soils were encountered at approximately four feet below the ground surface and as previously noted, grading for the project site could reach up to six feet below the ground surface. Therefore, the proposed project may cause a substantial adverse change in the significance of a TCR, and impacts would be potentially significant without mitigation. However, implementation of Mitigation Measures **MM TCR-1** and **MM TCR-2** would reduce potential impacts to **less than significant with mitigation incorporated** by requiring implementation of appropriate handling and treatment procedures in the event of an unanticipated discovery of TCRs during construction activities, construction worker training, and Native American monitoring.

Mitigation Measures

The following mitigation measure would be required to address potential impacts to TCRs.

MM TCR-1 Unanticipated Discovery of Tribal Cultural Resources

If previously undiscovered cultural resources of Native American origin are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and a tribal representative shall be given notice and opportunity within 24 hours of discovery to determine in consultation with UCR whether it is a TCR, as defined by CEQA. If the find is not a TCR, work may resume. If the find is determined to be a TCR, the tribal representative shall be given the opportunity to make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to TCRs. If UCR determines that preservation in place is not feasible, UCR shall design and implement a treatment plan in consultation with local Native American group(s) and, if applicable, a qualified archaeologist; prepare a report; and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.

MM TCR-2 Tribal Cultural Resources Monitoring and Construction Worker Training

UCR shall give notice and opportunity to a locally affiliated Tribe to provide a qualified Native American monitor to observe all ground-disturbing activities within native soils on the project site (i.e., those soils encountered at greater than four feet in depth). Notice shall be given no less than five days prior to commencement of ground-disturbing activities within areas known or expected to contain native soils. The on-site monitoring shall end when project-related ground disturbing activities within native soils are completed, or, in consultation with the lead agency and Tribe(s) as appropriate and based on observed conditions, monitoring may be reduced or eliminated prior to completion of ground-disturbing activities, when the monitor(s) has indicated that the project site has a low potential to encounter tribal cultural resources. Consolidated monitoring efforts (e.g., tribal cultural and paleontological monitoring) may occur if the individual monitor meets the applicable qualifications. The Native American monitor shall also be given notice and opportunity to provide preconstruction training for all earthmoving construction personnel prior to the start of any ground disturbing activities. The training shall include instruction on how to recognize the types of tribal cultural resources that may be encountered, and appropriate actions to be taken by the construction personnel in the event of an unanticipated discovery of a tribal cultural resource. The Native American monitor shall also be given the opportunity to provide a fact sheet conveying this information for distribution to all contractors, their employees, and other personnel involved with construction of the project. All employees shall sign a form provided by the Native American monitor documenting they attended the worker training and understand the information presented. If new construction personnel are added to the project, the crew foreman shall ensure the new personnel receive the worker training fact sheet before starting work. The UCR Planning, Design & Construction Project Manager/contractor shall retain documentation showing when training of personnel was completed.

Significance After Mitigation

Implementation of **Mitigation Measures MM TCR-1** and **MM TCR-2** would reduce potential impacts to TCRs to a less than significant level by minimizing the potential for project construction to result in adverse effects to TCRs.

4.18.5 Cumulative Impacts

A project's environmental impacts are "cumulatively considerable" if the "incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future project" (CEQA Guidelines Section 15065[a][3]). The geographic scope for cumulative TCR impacts for the proposed project includes the Cahuilla, Gabrieleño/Tongva, Luiseño, and Serrano territory. This geographic scope is appropriate for TCR because TCR are regionally-specific and determined by the local tribes.

The proposed project, in conjunction with other nearby past, present, and reasonably foreseeable probable future projects in the region as discussed in Section 4, *Environmental Impact Analysis*, would have the potential result in significant cumulative impacts to TCRs. Cumulative development would continue to disturb areas with the potential to contain TCRs. Given the potential to damage these unknown TCRs, cumulative impacts are considered significant without mitigation. Cumulative projects are reviewed separately by the appropriate jurisdiction and undergo environmental review when it is determined that the potential for significant impacts exists. In the event that future cumulative projects would result in impacts to known or unknown TCRs, impacts to such resources would be addressed on a case-by-case basis and would likely be subject to mitigation measures

similar to those imposed for the proposed project as a result of the CEQA process. Cumulative impacts to TCR would therefore be significant.

As described under Impact TCR-1, the proposed project would result in a significant impact without mitigation to unknown TCRs. Therefore, the project's contribution is considered cumulatively considerable without mitigation. **Mitigation Measures MM TCR-1 and MM TCR-2** would reduce project-level impacts to less than significant. Therefore, the project's contribution to cumulative impacts to TCRs **would not be cumulatively considerable (less than significant) with mitigation.**

4.18.6 References

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4.19 Utilities and Service Systems

4.19.1 Introduction

This section describes the existing and projected characteristics of utilities and service systems at and near the project site and evaluates whether implementation of the proposed project would result in any environmental impacts associated with water, wastewater, stormwater, electric power, natural gas, and telecommunications facilities; water supplies; wastewater treatment; and solid waste disposal.

4.19.2 Existing Conditions

Regional Setting

Water

The City of Riverside (City) receives most of its water from Riverside Public Utilities (RPU) (RPU 2022). The RPU accounts for and forecasts water supply in its Urban Water Management Plan (UWMP), which is discussed further below. The RPU UWMP and its appendices are incorporated by reference and include discussions of regional cumulative water demand, water supplies, water supply reliability, water shortage contingency planning, future water supply projects, and climate change effects. Locally-produced groundwater resources constitute approximately 80 percent of the annual supply delivered by RPU to its service connections and, notably, all the groundwater basins that provide supply to RPU are adjudicated. This means each basin is managed pursuant to an Adjudication Judgment that is administered by a Watermaster towards the goal of maintaining sustainable groundwater conditions. Therefore, by nature of the basins being adjudicated, they are managed to maintain sustainable conditions (UCR 2021a).

The City's water comes from both groundwater and surface water resources. Local groundwater is produced from the Bunker Hill Basin, the Rialto-Colton Basin, and the Riverside North and South Basins. RPU also receives recycled water produced by the Riverside Water Quality Control Plant (RWQCP). In addition, when needed to meet peak demands, RPU can purchase imported State Water Project (SWP) water from Western Municipal Water District (WMWD) of Riverside County. WMWD is a member agency of the Metropolitan Water District of Southern California (Metropolitan) and has a direct connection to Metropolitan's Henry J. Mills Water Treatment Plant (one of Metropolitan's five treatment plants), which delivers treated SWP water via gravity flow to WMWD and other member agencies as needed (RPU 2017). WMWD can provide RPU with up to 21,700 acre-feet per year (AFY) of imported water (RPU 2021). Table 4.19-1 summarizes RPU's projected water supplies through 2045.

Table 4.19-1 Current and Projected Cumulative RPU Water Supplies

Water Supplies (AFY)	2020¹	2025	2030	2035	2040	2045
Groundwater						
Bunker Hill	57,946	55,263	55,263	55,263	55,263	55,263
Riverside North	8,876	10,902	10,902	10,902	10,902	10,902
Riverside South	19,287	16,880	16,880	16,880	16,880	16,880
Rialto-Colton	2	2,728	2,728	2,728	2,728	2,728
Future Groundwater Extraction/Conjunctive Use Projects ²	0	1,750	4,000	7,300	8,800	8,800
Groundwater Total	86,111	87,523	89,773	93,073	94,573	94,573
Other Sources						
Recycled Water from RWQCP	213	5,700	13,420	13,420	13,420	13,420
Imported/Purchased Water from WMWD ³	0	21,700	21,700	21,700	21,700	21,700
Other Sources Total	213	27,400	35,120	35,120	35,120	35,120
Supply Total	86,324	114,923	124,893	128,193	129,693	129,693

RPU = Riverside Public Utilities; AFY = acre feet per year; RWQCP = Riverside Water Quality Control Plant; WMWD = Western Municipal Water District

¹ Actual supplies in 2020.

² Includes the Seven Oaks Dam Enhanced Phase II Conservation Project, Bunker Hill Basin Active Recharge 2025 Project, Riverside North Aquifer Storage and Recovery Project, Box Spring Local Stream Recharge and Direct Use Project, and the Stormwater Recharge at Columbia, Marlborough, and Kansas Detention Basins Project.

³ Imported water from WMWD is shown as a supply available to RPU. RPU intends to use this supply only if needed.

Source: RPU 2021 (adapted from Tables 6-2, 6-9, and 6-10)

RPU has historically met most of its demand from groundwater sources. In RPU’s 2020 UWMP, RPU estimated groundwater supplies will constitute approximately 76 percent of total water supply for the region in 2025 and decrease to approximately 72 percent of total water supply by 2045. RPU currently has 53 active wells, 46 of which produce potable water and seven of which produce non-potable water. RPU also has a total of 33 monitoring wells, 20 of which are inactive (RPU 2021).

Wastewater

Wastewater generated in the project area is collected and treated by the City Wastewater Division, which is responsible for wastewater flows throughout the City, as well as by the community services districts of Jurupa, Rubidoux, Edgemont, and the community of Highgrove. The City’s collection system consists of over 800 miles of gravity sewers ranging from four to 51 inches in diameter as well as 414 miles of City-owned sewer laterals and 20 wastewater pump stations, which range in size from less than 100 gallons per minute to over 11,000 gallons per minute. Wastewater treatment is conducted at the RWQCP, located at 5950 Acorn Street in Riverside, just south of the Santa Ana River and approximately six miles west of West Campus (City of Riverside 2020). The RWQCP receives influent from five lines, including the Arlanza trunk, the Riverside/Hillside trunk, the Acorn trunk, the Jurupa force main, and the Rubidoux force main. In 2020, the RWQCP treated approximately 9,629 million gallons of wastewater, for a daily average treatment volume of approximately 26.31 million gallons per day (MGD) (UCR 2021a). The RWQCP has a rated capacity of 40 MGD, and a plant-wide expansion was completed in December 2015 that increased treatment capacity to 46 MGD of average dry weather flow. According to the City, expansion of the RWQCP

was undertaken to accommodate City's General Plan buildout through 2037 with cumulative projections indicating a wastewater flow of 39 MGD by the year 2037 (City of Riverside 2020). Future expansion to increase the plant's rated treatment capacity from 46 MGD to 52 MGD (i.e., Phase 2) has been identified as a potential option by the City.

Stormwater Drainage

The existing storm drain network serving the UCR campus is comprised of UCR, City, and County of Riverside drainage facilities. On-site and off-site stormwater is collected and discharged through overland flow, underground storm drains, and natural arroyos that ultimately discharge to open channel arroyos and large-diameter County drainage facilities. The City's municipal storm drain system receives runoff from the UCR campus that ultimately discharges to the Santa Ana River. In the City, 10 of the 11 principal drainage areas eventually flow into the Santa Ana River, which drains a watershed of over 2,700 square miles (UCR 2021a; City of Riverside 2007).

Natural Gas and Electricity

Riverside County (County), including UCR, is located within the natural gas utility service area of Southern California Gas (SCG). The area is serviced via SCG high-pressure distribution lines located under roadways and transmission pipelines throughout the County. In 2020, development in the County consumed approximately 437 million therms of natural gas (California Energy Commission [CEC] 2021a).

Development in the County is served by two electrical utilities: Riverside Public Utilities (RPU) and Southern California Edison (SCE). RPU provides electricity to many of the cities and entities throughout the County, and the UCR campus and project site vicinity are within its service area. Therefore, RPU is the focus of this discussion. RPU owns 13,912 distribution transformers, more than 1,300 circuit miles of distribution cables connecting them with more than 22,000 poles overhead, 14 substations, 65 transformers, 54 switchgears, and more systems underground. The transmission system consists of almost 100 miles of cable. RPU operates the Riverside Energy Resource Center, a power generation plant on 16 acres in the City that provides 192-megawatt (MW) gas-fired power used to offset power shortages during times of peak demand. All of RPU's imported energy comes through a single power connection via the SCE Vista Substation, located in Grand Terrace. RPU serves approximately 317,000 people in a 90 square-mile area (UCR 2021a). In 2020, RPU supplied approximately 2,144 gigawatt-hours of electricity to its service area (CEC 2021b).

Solid Waste

Solid waste includes discarded garbage or refuse that will be disposed of at a landfill, recycling facility, or compost facility. Solid waste generated by RUSD is taken to the Agua Mansa Materials Recovery Facility (MRF) at 1706 Goetz Road in Perris. Solid waste that is not recycled, composted, or reused becomes disposed of at either the Badlands Landfill, El Sobrante Landfill, or Lamb Canyon Landfill (UCR 2021a). The capacities of these landfills are shown in Table 4.19-2.

Table 4.19-2 Existing Landfill Capacities

Landfill	Location	Estimated Closure Date	Current Average Daily Throughput (tons/day) ¹	Maximum Permitted Daily Load (tons/day)	Maximum Permitted Capacity (tons)	Current Remaining Capacity (tons)
Badlands Landfill	31125 Ironwood Avenue, Moreno Valley, California	2026	2,206	4,800	34.4M	7.8M
El Sobrante Landfill	10910 Dawson Canyon Road, Corona, California	2051	3,677	16,054	209.9M	144.0M
Lamb Canyon Landfill	16411 Lamb Canyon Road (State Route 79), San Jacinto, California	2032	1,835	5,000	39.7M	19.2M

M = Million

¹ Based on July 2022 data.

Source: California Department of Resources Recycling and Recovery (CalRecycle) 2022a, 2022b, and 2022c

Telecommunications

The City’s Public Utilities Department owns and operates an extensive fiber optic communications system which provides data accessibility to those who are within its limits (City of Riverside 2012a). Cell and other telecommunication services are available within the City.

Campus and Project Site Setting

Water

RPU provides potable water to the UCR campus. UCR has a private on-campus water system that conveys water supply on campus as needed. All potable water, fire water, and irrigation water supplies are distributed through the campus-wide system. UCR’s water supplies (domestic, irrigation, and fire water) are conveyed to the UCR water system via a 15-inch concrete pipe connecting to a five-million-gallon City reservoir (UCR 2021a). UCR has two domestic water storage tanks, with respective capacities of one million gallons and 50,000 gallons each. A 12-inch transite pipeline serves as the main water line for water distribution to the main campus and feeds the two campus storage tanks, located southeast of the campus. When the storage tanks are full, the pumps shut off, and the tanks serve as UCR’s main water source. When water levels in the tanks drop below a pre-determined level, the pumps start again to fill the tanks and continue supplying water to the campus (UCR 2021a). The proposed project’s water demand would be supplied by RPU. Limited water facilities, including a six-inch backflow pipeline, are present within the project site.

Wastewater

Wastewater generated on the UCR campus is collected and treated by the City’s Wastewater Division. In 2019, UCR developed a Sewer System Management Plan (SSMP) to comply with State Water Resources Control Board (SWRCB) Order No. 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems. As described therein, the UCR sanitary sewer system has been in use since 1954 and comprises over 80,000 linear feet of collection pipelines ranging from four to 15 inches in diameter. Original pipelines have been replaced as upgrades or repairs have been required or as new facilities have been constructed. The City and UCR have a

wastewater discharge agreement that allows UCR to discharge 1.55 cubic feet per second (approximately one MGD) from the campus into the portion of the City's trunk line located in East Campus between Valencia Hills Drive and Canyon Crest Drive (UCR 2021a). Wastewater generated by the proposed project would be conveyed and treated by the City's Wastewater Division.

Stormwater Drainage

The main stormwater drainage line for East Campus, known as the University Arroyo system, conveys the majority of stormwater runoff that flows toward and through campus from the east. The University Arroyo system discharges runoff to the Gage Detention Basin north of University Avenue at Canyon Crest Drive. Between 2006 and 2010, UCR implemented the University Arroyo Flood Control and Enhancement System, which included a series of above and belowground improvements to the existing University Arroyo system, in order to provide the necessary capacity to convey stormwater flows associated with the 100-year storm event and not exceed the capacity of the municipal storm drain system. As improved, the current drainage system accepts surface runoff flows at the campus boundary, moderates peak flows, and conveys both off-site flows and campus discharges to the downstream terminus at the Gage Basin. From the Gage Basin, discharges pass through the municipal storm drain system and ultimately the Santa Ana River (UCR 2021a). Stormwater runoff from the project site would drain into the Gage Basin.

Natural Gas and Electricity

Natural gas for UCR is exclusively procured through Shell Energy and transported by SCG. UCR privately distributes medium pressure gas throughout East Campus, in which the project site is located. East Campus is served by a distribution line under Blaine Street (UCR 2021a). Electricity used on the UCR campus to provide power for space cooling, heating and ventilation, lighting, research activities, office equipment, and refrigeration is supplied by RPU and distributed via an extensive network of power distribution infrastructure (UCR 2021a). The proposed project's electricity and natural gas demands would be supplied by RPU and SCG, respectively.

Solid Waste

UCR's landfill-bound waste is collected and hauled by UCR trucks to the CR&R Transfer Station and MRF at 1706 Goetz Road in Perris. Some recyclable materials are recovered through a sorting process of the landfill waste stream, and the remainder is used for energy and concrete production. Solid waste that is not recycled, composted, or reused would be disposed of at the Badlands, El Sobrante, or Lamb Canyon Landfills (UCR 2021a).

The proposed project's solid waste would be managed by RUSD's Maintenance, Operations, and Transportation (MOT) division. Solid waste would be picked up two to three times a week, typically between the hours of 4:00 a.m. and 12:30 p.m., and taken to the Agua Mansa Materials Recovery Facility (MRF) where an on-site robotic conveyor machines separate solids and recyclables. Cardboard would be picked up from the project site once every two weeks and also taken to the Agua Mansa MRF. Green waste would be managed by the RUSD greenscape team. All green waste removed from the project site would be processed at the Cleveland and Meyers RUSD site where it would then be recycled and converted to mulch for re-use at RUSD sites. Extra green waste would occasionally be taken to Agua Mansa MRF in 40 cubic yard roll-off dumpster trucks owned by RUSD. The remaining solid waste would be disposed of at the Badlands, El Sobrante, or Lamb Canyon Landfills.

4.19.3 Regulatory Framework

Federal

Clean Water Act

The federal Clean Water Act (CWA), enacted by Congress in 1972 and amended several times since, is the primary federal law regulating water quality in the U.S. and forms the basis for several State and local laws throughout the country. The CWA established the basic structure for regulating discharges of pollutants into the waters of the U.S. The CWA gave the United States Environmental Protection Agency (USEPA) the authority to implement federal pollution control programs, such as setting water quality standards for contaminants in surface water, establishing wastewater and effluent discharge limits for various industry contaminants in surface water, establishing wastewater and effluent discharge limits for various industry categories, and imposing requirements for controlling nonpoint-source pollution. At the federal level, the CWA is administered by the USEPA and United States Army Corp of Engineers. At the State and regional levels in California, the CWA is administered and enforced by the SWRCB and the nine Regional Water Quality Control Boards (RWQCBs).

Safe Drinking Water Act

The Safe Drinking Water Act (SDWA) regulates public water systems that supply drinking water (42 United States Code Section 300[f] et seq.; 40 Code of Federal Regulations Section 141 et seq). The SDWA authorizes the USEPA to establish national standards for drinking water (called the National Primary Drinking Water Regulations) that set enforceable maximum contaminant levels in drinking water and require all water providers in the U.S. to treat water to remove contaminants. The main objectives of the SDWA are to:

- Ensure that water from the tap is potable (i.e., safe and satisfactory for drinking, cooking, and hygiene)
- Prevent contamination of groundwater aquifers that are the main source of drinking water for a community
- Regulate the discharge of wastes into underground injection wells pursuant to the Underground Injection Control program (see 40 Code of Federal Regulations Section 144)
- Regulate distribution systems

State

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act is the overarching water quality control law for California. It is implemented by the SWRCB and the nine RWQCBs. The SWRCB establishes statewide policy for water quality control and provides oversight of the regional boards' operations. The Porter-Cologne Act and the CWA overlap in many ways because the entities established by the Porter-Cologne Act enforce and implement many federal laws and policies.

California Plumbing Code, Title 24, Part 5

The California Plumbing Code is codified in California Code of Regulations (CCR) Title 24, Part 5. The Plumbing Code contains regulations including, but not limited to, plumbing materials, fixtures, water

heaters, water supply and distribution, ventilation, and drainage. More specifically, Part 5, Chapter 4, contains provisions requiring the installation of low-flow fixtures and toilets. Existing development is also required to reduce its wastewater generation by retrofitting existing structures with water efficient fixtures (Senate Bill 407 [2009] Civil Code Sections 1101.1 et seq.)

California Building Energy Efficiency Standards (2022), Title 24, Part 6

CCR Title 24, Part 6, is California's Energy Efficiency Standards for Residential and Non-residential Buildings. The CEC established Title 24 in 1978 in response to a legislative mandate to create uniform building codes to reduce California's energy consumption and provide energy efficiency standards for residential and non-residential buildings. The standards are updated on an approximately three-year cycle to allow consideration and possible incorporation of new efficient technologies and methods.

In 2021, the CEC updated Title 24 standards with more stringent requirements that became effective January 1, 2023. The building efficiency standards are enforced through the local plan check and building permit process. Local government agencies may adopt and enforce additional energy standards for new buildings as reasonably necessary due to local climatologic, geologic, or topographic conditions, provided these standards exceed those provided in Title 24.

The 2022 update to the Building Energy Efficiency Standards under Title 24 applies to buildings for which an application for a building permit is submitted on or after January 1, 2023. The updated standards mainly established electric-ready requirements when natural gas is installed, expanded solar photovoltaic and battery storage standards, and strengthened ventilation standards to improve indoor air quality (CEC 2021c).

California Green Building Standards Code (2022) Title 24, Part 11

The California Green Building Standards Code, commonly referred to as "CALGreen" originally went into effect on August 1, 2009 and outlines architectural design and engineering principles that are in synergy with environmental resources and public welfare. CALGreen sets minimum standards for buildings, and since 2016, applies to new building construction and some alterations/additions within certain parameters. CALGreen establishes planning and design standards for sustainable site development, including water conservation measures and requirements that new buildings reduce water consumption by 20 percent below a specified baseline. CALGreen requires installations of 1.28 gallons-per-flush toilets and 0.5-gallon-per flush urinals for all non-residential projects as part of the prescriptive method of reducing indoor water use by the required 20 percent.

CALGreen lays out the minimum requirements for newly constructed residential and non-residential buildings to reduce greenhouse gas emissions through improved efficiency and process improvements. It also includes voluntary tiers to encourage building practices that improve public health, safety, and general welfare by promoting a more sustainable design. In addition, CALGreen includes several requirements related to solid waste diversion. Importantly, new non-residential construction is required to achieve at least 65 percent construction and demolition waste diversion and provide recycling areas for paper, cardboard, glass, plastics, metal, and organic waste. The 2022 CALGreen update primarily includes new requirements for the inclusion of electric vehicle charging stations and carbon dioxide monitoring and controls in classrooms. These requirements went into effect January 1, 2023.

Urban Water Management Plan Act

The California Urban Water Management Planning Act applies to municipal water suppliers that serve more than 3,000 customers or provide more than 3,000 AFY. The act requires these water suppliers to update their UWMP every five years to identify short-term and long-term water demand management measures to meet growing water demands during normal, dry and multiple-dry years. The UWMP should include a description of existing and planned water sources, alternative sources, conservation efforts, reliability and vulnerability assessments, and a water shortage contingency analysis. RPU updated its UWMP in 2021 (RPU 2021).

State Water Resources Control Board Drought Regulations

SWRCB adopted Resolution 2015-0032 in 2015, which created emergency drought regulations for statewide urban water conservation “not only for 2015, but also for another year of drought should it occur” (SWRCB 2015). Additional information on specific drought reduction measures taken by SWRCB in 2022 are available online at: <https://www.waterboards.ca.gov/drought/>.

Phase II Stormwater Discharge Permit

Phase II of the National Pollutant Discharge Elimination System (NPDES) Program regulates storm water discharges from municipal separate storm sewer systems (MS4s), such as schools and universities. As part of Phase II, the SWRCB adopted a General Permit for the Discharge of Stormwater from Small MS4s (WQ Order No. 2003-0005-DWQ) to provide permit coverage for smaller municipalities, including non-traditional Small MS4s, which include public campuses. The Phase II Small MS4 General Permit covers Phase II permittees statewide. On February 5, 2013, the Phase II Small MS4 General Permit was adopted and became effective on July 1, 2013 (WQ Order No. 2013-0001-DWQ) (SWRCB 2013). UCR was approved for coverage under the Phase II MS4 permit program.

Projects developed at UCR are subject to the requirements of the Statewide General NPDES Permits, including the requirement to obtain coverage under the Construction General Permit Order 2009-0009-DWQ, subsequently amended by Order No. 2010-0014-DWQ and Order No. 2012-0006-DWQ. Projects require a Permit Registration Document with the SWRCB, including a Stormwater Pollution Prevention Plan (SWPPP) to identify, construct, implement, and maintain both source-control and treatment-control best management practices (BMPs) to reduce or eliminate pollutants in stormwater discharges and authorized non-stormwater discharges from the construction site during construction. BMPs can include treatment controls; operating procedures; training and education; and practices to control site runoff, spill, leaks, and waste disposal. BMPs are required to be updated accordingly to comply with any additions and/or modifications to the NPDES permit requirement or site conditions.

Projects that create or replace more than 2,500 square feet of impervious surface are also subject to Phase II Small MS4 (WQ Order No. 2013-0001-DWQ NPDES No. CAS 000004) low-impact development (LID) measures, including runoff reduction, and post-construction stormwater management requirements, such as on-site stormwater capture and infiltration. Runoff reduction must be quantified through the State’s water balance calculator and a Post-Construction Stormwater Management Checklist must also be completed.

Because both the Phase I and Phase II permits would be applicable, the proposed project would be required to comply with the more stringent permitting requirements, which are contained in the Phase I permit, as well as with the reporting provisions of the Phase II MS4 General Permit.

Water Quality Control Plan for the Santa Ana River Basin (Basin Plan)

The City is under the jurisdiction of the Santa Ana RWQCB (SARWQCB), which provides permits for projects that may affect surface waters and groundwater locally and which is responsible for preparing the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan). The Basin Plan designates beneficial uses of water in the region and establishes narrative and numerical water quality objectives. Water quality objectives, as defined by the CWA Section 13050(h), are the “limits or levels of water quality constituents or characteristics which are established for the reasonable protection of beneficial uses or the prevention of nuisance within a specific area.” The State has developed total maximum daily loads (TMDLs), which are a calculation of the maximum amount of a pollutant that a waterbody can have and still meet water quality objectives established for the region. The Basin Plan serves as the basis for the SARWQCB’s regulatory programs and incorporates an implementation plan to ensure water quality objectives are met. Basin Plans undergo a triennial review process, with the SARWQCB’s Basin Plan most recently updated in June 2019 (SARWQCB 2019).

California Integrated Waste Management Act

The California Integrated Waste Management Act of 1989, Assembly Bill 939, created the (former) California Integrated Waste Management Board, now CalRecycle. Responsible for oversight of waste management in California, CalRecycle assists cities, counties, businesses, and organizations with meeting State waste reduction, reuse, and recycling goals. Assembly Bill 939 requires local jurisdictions meet waste diversion goals and establish a framework for program implementation, solid waste planning, and solid waste facility and landfill compliance. The act was primarily intended to encourage minimizing the volume of solid waste disposed of by “transformation” (including incineration, pyrolysis, distillation, and bioconversion) and by land disposal through the establishment of solid waste diversion goals for all cities and counties.

Governor’s Proclamation of a State of Emergency

On May 10, 2021, the Governor of California declared a state of emergency related to drought conditions in California. This initiates temporary drought contingency measures for water suppliers and public agencies (Office of the Governor 2021).

University of California

UC Policy on Sustainable Practices

The University of California, Office of the President (UCOP) developed a Sustainable Practices Policy that establishes sustainability goals to be achieved by all campuses, medical centers, and the Lawrence Berkeley National Laboratory within the University of California (UC) system. The UC Policy on Sustainable Practices was approved in 2003 by the UC Regents and most recently updated in July 2023. Per agreement of UCR and RUSD, the proposed project would be subject to compliance with the version of the Policy on Sustainable Practices in effect in September 2018. The Policy establishes goals in areas of sustainable practices for both individual building projects and overall facility operations: green building design, clean energy, climate protection, sustainable transportation, sustainable building operations, zero waste, sustainable procurement, sustainable foodservices, and sustainable water systems (UCOP 2018). Most relevant to the discussion herein are the goals and policies related to energy use (i.e., green building design, clean energy, sustainable building operations) and water supply (i.e., sustainable water systems).

University of California, Riverside

Sewer System Management Plan

The SSMP was developed by UCR to comply with SWRCB Order No. 2006-0003-DWQ. The SSMP aims to prevent pollution from sanitary sewer overflows from entering storm drains and to prevent untreated or partially treated wastewater from discharging from storm drains into flood control channels or waters of the U.S.

2021 Long Range Development Plan

The 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. The 2021 LRDP also includes objectives and policies relevant to utilities and service systems that are applicable to the proposed project, which are summarized in Table 4.19-3.

Table 4.19-3 UCR 2021 LRDP Objectives and Policies Related to Utilities and Service Systems

Objective	Policy
Open Space	
Demonstrate an increased commitment to preservation and enhancement of the natural environment through the design and placement of future campus landscapes.	Consider the ecological and potential stormwater management functions of proposed landscapes. Utilize climate-appropriate, native/drought-tolerant, and/or low maintenance landscape materials outside of signature campus open spaces.
Infrastructure and Sustainability	
Explore options to shift away from potable water use where feasible.	Design new building irrigation and efficient toilet flushing systems for use with future non-potable water sources.
Transition the campus lands to manage stormwater in a manner that replicates natural drainage patterns and allow plants to filter pollutants out of runoff and promote infiltration overflowing into waterways, thus meeting regulatory requirements through innovative, attractive, and cost-efficient solutions.	Achieve a further 20% reduction of potable water use for irrigation by extending Gage Canal water to also irrigate the UCR Botanic Gardens and reducing turf on campus and replacing with lower water use landscaping.
	Prepare and maintain a Storm Water Management Plan to account for the additional runoff from the projected new development to meet the requirements of the State of California’s mandated Phase II Small Municipal Separate Storm Sewer System (MS4) Section F.5.g. (Post-Construction Storm Water Management Plan), including Section F.5.g.3. (Alternative Post-Construction Storm Water Management Plan) consistent with the Maximum Extent Practicable standard. To the extent feasible, integrate stormwater infrastructure within the open space framework of campus such that developable campus lands are minimally lost. The Storm Water Management Plan will include planning and design strategies to restore, enhance, and maintain hydrological function on campus and within the regional hydrological system in response to the projected development.

Source: UCR 2021b

Regional and Local

As noted in Section 4, Environmental Impact Analysis, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes,

aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible, but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

Municipal Regional Stormwater NPDES Permit

On January 29, 2010, the RWQCB adopted Order R8-2010-0033, as amended by Order R8-2013-0024 (NPDES Permit and Waste Discharge Requirements for the Riverside County Flood Control and Water Conservation District (RCFCWCD), the County, and the incorporated cities of the County in the Santa Ana Region) otherwise known as the MS4 permit. The City is a co-permittee under the County MS4 permit. One component of the MS4 permit requires the development of site-specific water quality management plans (WQMPs) for new development and significant redevelopment projects. WQMPs include site design, source control, and treatment elements to reduce stormwater pollution from urban runoff (SARWQCB 2010).

On April 7, 2015, the SWRCB adopted Statewide Trash Provisions to address impacts of trash on surface waters in the region. The Trash Provisions outline additional requirements for co-permittees under the MS4 permit, including either installation of full capture systems for all storm drains capturing runoff from priority land uses, or a combination of full capture systems, multi-benefit projects, treatment controls, and/or institutional controls to reduce trash accumulation in surface waters (SWRCB 2022). UCR is bound by the Statewide Trash Provisions and received a Water Code Section 13383 Order in June 2017 to comply with specific initial requirements.

Riverside County Drainage Area Management Plan

The Riverside County Drainage Area Management Plan (DAMP), developed by the RCFCWCD and other co-permittees to the MS4 permit, outlines programs and policies to manage urban runoff. The DAMP includes development review procedures for co-permittees, required construction BMPs and inspection frequency, annual reporting and evaluation framework, and TMDL implementation strategies. The DAMP is the primary document outlining compliance procedures for co-permittees to adhere to the requirements of the MS4 permit in the County. The DAMP for the Santa Ana Region was last updated in 2017 (RCFCWCD 2017).

Riverside County Watershed Action Plan

The Riverside County Watershed Action Plan is intended to enable co-permittees under the County MS4 permit to address watershed-level water quality impacts associated with urbanization (County of Riverside 2017). The Watershed Action Plan describes the Santa Ana Watershed, applicable MS4 programs, and the development review process for new development and redevelopment projects.

Design Handbook for Low Impact Development Best Management Practices

Developed in 2011 by the RCFCWCD, the Design Handbook for Low Impact Development Best Management Practices describes LID guidelines for projects to reduce downstream erosion by more closely mimicking pre-project hydrology and minimizing pollutant runoff. The handbook details strategies for selecting appropriate LID BMPs, design capture volume requirements for BMPs, and sizing calculation methodology for BMP implementation in specific watersheds in the County (RCFCWCD 2011).

City of Riverside General Plan

OPEN SPACE AND CONSERVATION ELEMENT

The Open Space and Conservation Element contains policies to minimize impacts to groundwater and surface water resources, coordinate public and private entities that affect the consumption and quality of water resources in the City, enforce RWQCB and NPDES regulations regarding urban runoff and water quality standards, and protect aquifer recharge features. Policies within the Open Space and Conservation Element also support the development of renewable energy resources and the incorporation of energy conservation features in new buildings (City of Riverside 2012b).

PUBLIC FACILITIES AND INFRASTRUCTURE ELEMENT

The Public Facilities and Infrastructure Element contains policies to protect local groundwater resources from localized and regional contamination, reduce stormwater flows into the wastewater system and the Santa Ana River, cooperate in regional programs to implement the NPDES program, and routinely monitor and evaluate the effectiveness of the storm drain system. With regard to solid waste, the Public Facilities and Infrastructure Element aims to expand recycling and solid waste diversion and develop programs that encourage residents to donate furniture, electronics, clothing, or other household items rather than dispose of these items in a landfill. With regard to electricity, natural gas, and telecommunications, policies promote energy conservation and green building design and aim to expand access to telecommunication technology while encouraging new development to be constructed with necessary infrastructure for up-to-date telecommunications services (City of Riverside 2012a).

City of Riverside Municipal Code

TITLE 6, SECTION 6.04

Title 6, Section 6.04 of the City's Municipal Code is the City's Health and Sanitation Code, which specifies the requirements for handling solid waste and recycling materials (City of Riverside 2022b).

TITLE 14, CHAPTER 14.12

Title 14, Chapter 14.12 of the City's Municipal Code regulates the discharge of wastes to the public sewer and pollutants into the storm drain systems. The City has its own publicly-owned treatment works and therefore has jurisdiction under federal pretreatment standards for discharges to and from the treatment works. Section 14.12.315 of Chapter 14.12 prohibits the discharge of pollutants to the storm drainage system or any waterway, whether carrying water or not. Section 14.12.316 requires the preparation of a WQMP and installation of BMPs for new development and redevelopment projects in the City, and Section 14.12.319 outlines inspection and enforcement for post-construction requirements detailed in the project's WQMP (City of Riverside 2022c).

TITLE 17, SECTION 17.16.010

Title 17 of the City's Municipal Code describes regulations pertaining to grading, including those intended to minimize erosion and runoff. Section 17.16.010 outlines grading permit application requirements, including noticing requirements to the SWRCB for coverage under the Statewide Construction General Permit and preparation of a SWPPP (City of Riverside 2022d).

TITLE 19, CHAPTER 19.570

Title 19, Chapter 19.570 of the City's Municipal Code contains the City's Water Efficient Landscaping and Irrigation Ordinance, which is intended to promote quality landscaping as well as efficient use of water in the City. The ordinance requires preparation and implementation of a planting plan that identifies the Maximum Applied Water Allowance and the Estimated Annual Water Use of the project's landscaping, as well as irrigation design and soil management plans (City of Riverside 2022a).

4.19.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Utilities and Service Systems to assess the proposed project.

Would the proposed project:

- a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction of which could cause significant environmental effects?
- b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple-dry years?
- c. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?
- d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?
- e. Comply with federal, State, and local management and reduction statutes and regulations related to solid waste?

Methodology

As discussed below, to calculate water demand as well as wastewater and solid waste generation, the outputs from the California Emissions Estimator Model (CalEEMod) air quality and greenhouse gas emissions model and default data tables were used to inform assumptions regarding generation rates for the proposed project; CalEEMod output data is provided in Appendix C to this Draft EIR. As an example of how CalEEMod was used to inform this analysis, CalEEMod outputs include estimates of annual water use based on rates derived from statewide water consumption by sector as reported by the Pacific Institute's *Waste Not, Want Not: The Potential for Urban Water Conservation in California* report (California Air Pollution Control Officers Association 2021a). CalEEMod outputs also calculate annual solid waste generation based on land use-based waste disposal rates reported by CalRecycle (California Air Pollution Control Officers Association 2021a). These outputs include demolition debris and operational waste generation rates.

To evaluate the potential impacts of the proposed project, the project's estimated demands on utilities and service systems are analyzed in relation to existing utility infrastructure in order to determine the necessity of new utility facilities, impacts to water supplies, wastewater treatment capacity, and solid waste disposal capacity; and adherence to applicable federal, State and local standards, statutes, and regulations related to solid waste.

Project Impacts and Mitigation Measures

Threshold a: Would the proposed project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Impact UTIL-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT REQUIRE OR RESULT IN THE RELOCATION OR CONSTRUCTION OF NEW OR EXPANDED WATER, WASTEWATER TREATMENT OR STORM DRAINAGE, ELECTRIC POWER, NATURAL GAS, OR TELECOMMUNICATIONS FACILITIES, THE CONSTRUCTION OR RELOCATION OF WHICH COULD CAUSE SIGNIFICANT ENVIRONMENTAL EFFECTS. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT IMPACT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Water Supply

Impact UTIL-1 is specific to impacts associated with infrastructure and facilities; water supply availability is addressed under Impact UTIL-2.

RPU provides potable water to the campus, which is used both in buildings and for landscape irrigation. Additionally, UCR has a private on-campus water system that conveys potable water throughout the campus, as needed. The proposed project would tie into existing RPU water lines in Blaine Street and Canyon Crest Drive, and as part of this tie-in, additional fire hydrants may be installed on-site and/or along the street frontage. Through this tie-in, the proposed project would be served by existing RPU infrastructure, which would convey all potable water, irrigation water, and fire prevention water supplies to the project site. In addition, other existing water utilities within the project site would be protected in place, replaced, or relocated within the site boundaries, as necessary. The environmental effects of the project's connection to the on-campus water system and protection/replacement/relocation of other existing water utilities within the project site are evaluated throughout this EIR, and no additional environmental effects related to the relocation or construction of new water facilities would occur. Therefore, impacts related to the relocation or construction of new water facilities would be **less than significant**.

Wastewater Treatment

Wastewater generated by the proposed project would be collected, treated, and disposed of by the City's Wastewater Division at the RWQCP. The proposed project would include an approximately 175-foot-long extension of an existing eight-inch sewer line in Canyon Crest Drive from the northernmost driveway of the Falkirk Apartments to the southeastern corner of the project site that would convey wastewater into the City's sewer system for conveyance to the RWQCP. The environmental effects of the project's connection to the City's sewer system are evaluated throughout this EIR, and no additional environmental effects related to the relocation or construction of new wastewater facilities would occur. In addition, as discussed under Impact UTIL-3, the RWQCP would have adequate capacity to serve the proposed project such that the proposed project would not necessitate the construction of new or expanded wastewater treatment facilities. Therefore, impacts related to the relocation or construction of new wastewater facilities would be **less than significant**.

Storm Drainage

The proposed project would include installation of on-site stormwater improvements, the nature and extent of which would be determined through preparation of a WQMP and compliance with UCR's campus-wide stormwater permits. As discussed in Section 4.10, *Hydrology and Water Quality*, the proposed project would be subject to the provisions of a SWPPP, NPDES Phase I permit (NPDES Permit No. CAS 618033),¹ WQMP, and UCR regulations. These regulations would require implementation of hydromodification requirements and implementation of LID features such as incorporation of permeable paving, vegetated swales, infiltration retention basins, or other features that would minimize stormwater runoff. Furthermore, existing stormwater infrastructure at UCR has sufficient conveyance capacity to accommodate increased stormwater flows associated with buildout on the UCR campus due to improvements in existing arroyos and detention basins, which currently have the capacity to convey and contain a 100-year flood event (UCR 2021a). Any stormwater runoff from the project site would be routed to existing stormwater drainage facilities in Blaine Street and Canyon Crest Drive. Therefore, the proposed project would not necessitate the construction of new or expanded storm drainage infrastructure. As such, impacts related to the relocation or construction of new stormwater drainage facilities would be **less than significant**.

Electric Power

The proposed project would require installation of an approximately 1,900 linear feet of an electrical feeder line upgrade in previously disturbed areas (Canyon Crest Drive and Blaine Street), the environmental impacts of which have been evaluated throughout this EIR and are not discussed further herein. Additionally, the proposed project would implement project design features to attain a minimum LEED Silver designation, which would further decrease electricity demand. Therefore, impacts related to the relocation or construction of new electric power facilities would be **less than significant**.

Natural Gas

The proposed project would require installation of a natural gas connection for cooking and laboratory uses. The proposed project would connect to existing natural gas lines in Canyon Crest Drive and/or Blaine Street. The environmental effects of this natural gas connection are evaluated throughout this EIR, and no additional environmental effects related to the relocation or construction of new natural gas facilities would occur. Therefore, impacts related to the relocation or construction of new natural gas facilities would be **less than significant**.

Telecommunications

The proposed project includes relocation of the existing T-Mobile Cell Tower on site to the adjacent property. The environmental effects of these modifications to telecommunications facilities are evaluated throughout this EIR, and no additional environmental effects related to the relocation or construction of new telecommunications facilities would occur. Additionally, the proposed project would include telecommunications/signals from distribution lines to building services and would include minor telecommunication improvements, such as undergrounding telephone lines in previously disturbed areas. Therefore, impacts related to the relocation or construction of new telecommunications facilities would be **less than significant**.

¹ The proposed project would be required to comply with the requirements of the NPDES Phase I permit (NPDES Permit No. CAS 618033) as well as the reporting provisions of the Phase II MS4 Small Statewide General Storm Permit.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold b: Would the proposed project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Impact UTIL-2 THE PROPOSED PROJECT WOULD HAVE SUFFICIENT WATER SUPPLIES AVAILABLE TO SERVE THE PROJECT AND REASONABLY FORESEEABLE FUTURE DEVELOPMENT DURING NORMAL, DRY, AND MULTIPLE DRY YEARS. THEREFORE, IMPACTS WOULD BE LESS THAN SIGNIFICANT IMPACT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

Water demand associated with the proposed project would be supplied by RPU, which delivers water throughout the City in accordance with a UWMP that accounts for cumulative water demands. Water delivered by the RPU is primarily sourced from locally produced groundwater resources. As discussed in Section 4.19.2, *Existing Conditions*, the local groundwater basins are adjudicated and managed in accordance with an Adjudication Judgement that is administered by an appointed Watermaster. In addition to groundwater, RPU also delivers recycled water when needed, such as during dry years and heavy demand periods. Forecast water supply and demand, anticipated by RPU, for normal, dry, and multiple dry years are shown in Table 4.19-4 below.

Table 4.19-4 RPU Supply and Demand in Normal, Dry, and Multiple Dry Years

Water Supplies (AFY)		2025	2030	2035	2040	2045
Normal Year						
Supply		114,923	124,893	128,193	129,693	129,693
Demand		90,712	100,803	103,260	105,807	108,447
Difference		24,211	24,090	24,934	23,886	21,245
Dry Year						
Supply		114,923	124,893	128,193	129,693	129,693
Demand		90,712	100,803	103,260	105,807	108,447
Difference		24,211	24,090	24,933	23,886	21,246
Multiple Dry Years						
First Year	Supply	114,923	124,893	128,193	129,693	129,693
	Demand	90,712	100,803	103,260	105,807	108,447
	Difference	24,211	24,090	24,934	23,886	21,245
Second Year	Supply	114,923	124,893	128,193	129,693	129,693
	Demand	90,712	100,803	103,260	105,807	108,447
	Difference	24,211	24,090	24,934	23,886	21,245
Third Year	Supply	114,923	124,893	128,193	129,693	129,693
	Demand	90,712	100,803	103,260	105,807	108,447
	Difference	24,211	24,090	24,934	23,886	21,245

Water Supplies (AFY)		2025	2030	2035	2040	2045
Fourth Year	Supply	114,923	124,893	128,193	129,693	129,693
	Demand	90,712	100,803	103,260	105,807	108,447
	Difference	24,211	24,090	24,934	23,886	21,245
Fifth Year	Supply	114,923	124,893	128,193	129,693	129,693
	Demand	90,712	100,803	103,260	105,807	108,447
	Difference	24,211	24,090	24,934	23,886	21,245

AFY = acre feet per year
 Source: RPU 2021

Construction Water Demands

Temporary construction water uses would primarily be for dust suppression associated with grading, grubbing, and compaction, as well as for stormwater control BMPs such as construction equipment wheel washing. Pursuant to the requirements of SCAQMD Rule 403 as described in Section 4.3, *Air Quality*, all disturbed unpaved roads and disturbed areas on the project site would be watered to reduce fugitive dust generation from construction activities. Demolition, site preparation, and grading are the activities anticipated to result in the greatest dust generation and, therefore, the greatest construction-related water demand. Water demand for dust suppression is highly dependent on site-specific variables such as soil properties, antecedent moisture conditions, and other climatic factors and can be supplied by non-potable reclaimed water. A 2017 analysis prepared by SCAQMD estimated water demand associated with Rule 403 dust suppression requirements for construction sites in SCAQMD jurisdiction at approximately 1,000 gallons per acre per day (SCAQMD 2017). Based on this estimated water demand factor, the proposed project would require approximately 0.4 acre-feet² of water for dust suppression activities during construction. This temporary and intermittent water use represents less than 0.0001 percent of the water surplus anticipated by RPU, shown in Table 4.19-4. Water use for dust suppression activities would cease following the completion of construction. Therefore, temporary construction water demands would not result in a long-term strain on water supplies. Potential impacts related to construction water consumption would be **less than significant**.

Operational Water Demands

The proposed project would accommodate approximately 800 full-time-equivalent students daily (400 full-time students and 800 part-time students). According to the water demand rates used in CalEEMod, water usage for a high school can be estimated using metrics of the number of employees, number of students, or square footage. For the purposes of this analysis, CalEEMod’s number of students metric was used as it yielded the highest potential water usage for the proposed project of each of the three metrics. According to CalEEMod’s water demand rates, water usage per high school student is approximately 11,327 gallons per full-time student per year (California Air Pollution Control Officers Association 2021b). Based on this demand factor, the proposed project would require approximately 9,061,600 gallons per year, or approximately 27.8 AFY.

As shown in Table 4.19-4, RPU anticipates having an approximately 21,245-acre-foot surplus in normal, dry, and multiple-dry years through the year 2045, which would be sufficient to accommodate the proposed project’s additional 27.8 AFY demand. As such, the proposed project

² (115 days of demolition, site preparation, and grading * 1,000 gallons per day)/ 325,851 gallons = 0.4 acre-feet of water

would have sufficient water supplies available to serve the proposed project and reasonably foreseeable future development during normal, dry, and multiple dry years. Therefore, impacts related to water supply availability would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold c: Would the proposed project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Impact UTIL-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT RESULT IN A DETERMINATION BY THE WASTEWATER TREATMENT PROVIDER WHICH SERVES OR MAY SERVE THE PROJECT THAT IT HAS ADEQUATE CAPACITY TO SERVE THE PROJECT'S PROJECTED DEMAND IN ADDITION TO THE PROVIDER'S EXISTING COMMITMENTS. THEREFORE, THE PROPOSED PROJECT WOULD HAVE A LESS THAN SIGNIFICANT IMPACT AND NO MITIGATION WOULD BE REQUIRED.

As discussed under Section 4.19.2, *Existing Conditions*, wastewater is treated by the City's Wastewater Division at the RWQCP. The RWQCP currently has a treatment capacity of 46 MGD of average dry weather flow. In 2020, the RWQCP treated a daily average of approximately 26.31 MGD (UCR 2021a). As such, the RWQCP has an approximate surplus capacity of 19.69 MGD. In CalEEMod, wastewater generation for a high school can be estimated using metrics of the number of employees, number of students, or square footage. For the purposes of this analysis, the metric of number of students was used because it yielded the highest potential wastewater generation for the proposed project of each of the three metrics. Consistent with the wastewater generation rates in CalEEMod, this analysis assumes a per-capita wastewater generation rate of approximately 4,405 gallons per full-time student per year, which is inclusive school-wide wastewater generation by students, faculty/staff, and visitors (California Air Pollution Control Officers Association 2021b). The proposed project would accommodate approximately 800 full-time-equivalent students daily (400 full-time students and 800 part-time students). As such, the proposed project would result in an increase of approximately 3,524,000 gallons annually in wastewater generation, or approximately 0.019 MGD³, which is well within the existing surplus treatment capacity of the RWQCP facility. Therefore, the proposed project would not result in a determination by a wastewater treatment provider that it does not have adequate capacity to serve the proposed project's anticipated demand in addition to the provider's existing commitments. Impacts related to wastewater treatment would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

³ Assumes an average school year length of 180 days (National Center for Education Statistics 2021).

<p>Threshold d: Would the proposed project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?</p> <p>Threshold e: Would the proposed project comply with federal, State, and local management and reduction statutes and regulations related to solid waste?</p>
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The following discussion addresses potential project impacts related to thresholds (d) through (e).

Impact UTIL-4 THE PROPOSED PROJECT WOULD NOT GENERATE SOLID WASTE IN EXCESS OF STATE OR LOCAL STANDARDS, OR IN EXCESS OF THE CAPACITY OF LOCAL INFRASTRUCTURE, OR OTHERWISE IMPAIR THE ATTAINMENT OF SOLID WASTE REDUCTION GOALS. THEREFORE, THE PROPOSED PROJECT WOULD HAVE A LESS THAN SIGNIFICANT IMPACT AND NO MITIGATION WOULD BE REQUIRED.

Construction and operation of the proposed project would generate solid waste. The handling of all debris and waste generated during construction would be subject to CALGreen and Assembly Bill 939 requirements for salvaging, recycling, and reuse of material from construction activity. This would result in diversion of at least 65 percent of construction and demolition waste diversion.

CalEEMod estimates solid waste generation for high schools using a metric based on number of students; however, this metric is inclusive of schoolwide solid waste generation by students, faculty/staff, and visitors. Based on the solid waste demand factor used in CalEEMod, high schools generate approximately one pound of solid waste per full-time student per day. The proposed project would accommodate approximately 800 full-time-equivalent students daily (400 full-time students and 800 part-time students) and would therefore result in daily solid waste generation of approximately 800 pounds, or 0.4 ton. Recycled material would be separated from solid waste at the Agua Mansa MRF and remaining solid waste would be transferred to either the Badlands Landfill, El Sobrante Landfill, or Lamb Canyon Landfill. As shown in Table 4.19-2, each of these landfills has a surplus average daily throughput ranging from approximately 2,594 to 12,377 tons per day. Assuming conservatively that none of the project's solid waste is recycled, the approximately 0.4 ton of solid waste generated daily would be well within the surplus daily throughput capacity of these landfills (CalRecycle 2022a; CalRecycle 2022b; CalRecycle 2022c). Therefore, the proposed project's addition of approximately 146 tons would not exceed local landfill capacity at these landfills.

The projected increase in solid waste generation as a result of the proposed project would not exceed the capacity of local infrastructure and would occur in compliance with State and UC regulations related to solid waste. Therefore, impacts related to solid waste would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.19.5 Cumulative Impacts

The cumulative context for utilities and service systems is the City unless otherwise clarified below, as cumulative development and redevelopment in the City would incrementally contribute to increased demand on utilities and service systems, and as planned cumulative development occurs throughout the City, the amount of physical disturbance for new or expanded facilities would increase. The projects listed in Table 4-1 and several regional plans further described in Section 4, *Environmental Impact Analysis*, represent development and redevelopment that has the potential to increase demands on utilities and service systems.

Cumulative development and redevelopment in the City would incrementally contribute to increased demand on existing water supply, and as planned cumulative development occurs throughout the City, the amount of physical disturbance for new or expanded facilities would increase. However, impacts associated with water supply facility improvements for cumulative projects would have limited potential to result in cumulative impacts due to the site-specific nature of such improvements, as well as the siting of such improvements in previously disturbed areas. The RPU UWMP is a planning document that addresses cumulative water supply issues for existing development and future growth. As shown in Table 4.19-4, the UWMP projects the City will have surplus of water of over 20,000 AFY through the year 2045. The amount of water used by the proposed project would be well within the surplus noted in the UWMP. Consequently, the proposed potential cumulative impacts associated with the provision of new or expanded water supply facilities would be **less than significant**.

Cumulative development and redevelopment in the City would incrementally increase the need for new or expanded wastewater facilities. Ongoing upgrades to the sewer system within the City under the Capital Improvement Plan would ensure adequate wastewater systems and infrastructure are available for future development within the City. These improvements would generally occur in previously disturbed or developed areas. Furthermore, the most recent expansion of the RWQCP was undertaken to accommodate the City's General Plan cumulative buildout through 2037. Therefore, the need for additional wastewater infrastructure due to cumulative growth has been satisfied by the recent RWQCP facility expansion. Therefore, cumulative impacts to wastewater systems and infrastructure would be **less than significant**.

The geographic scope of cumulative analysis for stormwater drainage facilities includes the City and the RCFCWCD service areas. This area is appropriate for analysis of cumulative impacts to stormwater drainage facilities due to the regional nature of such facilities. Individual cumulative projects in this scope of analysis would be subject to the stormwater capture and treatment requirements of project-specific SWPPPs and WQMPs in accordance with the City's MS4 Permit. As such, project-specific stormwater drainage features and BMPs to control stormwater runoff would be managed through the implementation of project-specific SWPPPs during construction and project-specific WQMPs during operation and maintenance. Where cumulative projects redevelop existing impervious sites, such redevelopment may result in benefits in comparison to existing conditions due to increased on-site stormwater capture. The implementation of project-specific SWPPPs and WQMPs would occur in the disturbance footprint of the respective projects. Through compliance of future projects with the applicable stormwater laws and regulations, cumulative impacts associated with stormwater are **less than significant**.

Cumulative development and redevelopment in the City would incrementally contribute to increased demand of electrical power, natural gas, and telecommunication and, as planned cumulative development occurs throughout the City, the amount of physical disturbance for new or

expanded facilities would increase. However, the City is an urbanized area and contains available existing infrastructure for electrical power, natural gas, and telecommunication. Thus, cumulative impacts associated with the provision of new or expanded electrical power, natural gas, and telecommunication would be **less than significant**.

Solid waste in the City is disposed primarily at the Badlands, El Sobrante, and Lamb Canyon Landfills. Cumulative development in the City, and subsequent population growth, would increase throughput at these landfills that could exceed maximum daily permitted throughputs or overall permitted landfill capacity. Therefore, cumulative impacts to solid waste would be **significant**. However, as discussed under Impact UTIL-4, the proposed project would generate an incremental increase in solid waste and would not exceed the surplus daily throughput capacities of the Badlands Landfill, El Sobrante Landfill, and/or Lamb Canyon Landfill. Additionally, each individual project would be required to comply with State and local waste diversion and/or reduction programs. Therefore, the proposed project's contribution to solid waste impacts would **not be cumulatively considerable (less than significant)**.

4.19.6 References

- California Air Pollution Control Officers Association (CAPCOA). 2021a. California Emissions Estimator Model, Version 2020.4.0. User's Guide, Appendix A. <http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-a2020-4-0.pdf?sfvrsn=6> (accessed January 2023).
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4.20 Wildfire

4.20.1 Introduction

This section analyzes potential impacts to wildfires and fire hazards from implementation of the proposed project. The analysis considers fire severity zones and nearby State Responsibility Areas (SRAs) or lands classified as Very High Fire Hazard Severity Zones (FHSZ) at and around the project site and addresses the potential for implementation of the proposed project to exacerbate impacts in these locations.

Wildfire Fundamentals

A wildfire is an uncontrolled fire in an area of extensive combustible fuel, including vegetation and structures. Wildfires differ from other fires in that they take place outdoors in areas of grassland, woodlands, brushland, scrubland, peatland, and other wooded areas that act as a source of fuel, or combustible material. Buildings may become involved if a wildfire spreads to adjacent communities. The primary factors that increase an area's susceptibility to wildfire include slope and topography, vegetation type and condition, and weather and atmospheric conditions.

The indirect effects of wildland fires can be catastrophic. In addition to stripping the land of vegetation and destroying forest resources, large, intense fires can harm the soil, waterways, and land itself. Soil exposed to intense heat may lose its capacity to absorb moisture and support life. Regions of dense dry vegetation, particularly in canyon areas and on hillsides, pose the greatest potential for wildfire risks. Urban/wildland interface fires occur when a fire burning in wildland vegetation gets close enough to threaten urban structures. The California Governor's Office of Planning and Research has recognized that although high-density structure-to-structure loss can occur, structures in areas with low- to intermediate-housing density are most likely to burn, potentially due to intermingling with wildland vegetation or difficulty of firefighter access. Fire frequency also tends to be highest at low to intermediate housing density, at least in regions where humans are the primary cause of ignitions (California Natural Resources Agency 2018).

Structural and automobile fires represent the most common types of fire in urbanized areas and can be caused by a variety of human, mechanical and natural factors. Urban fires have the potential to spread to other structures or areas, particularly if not extinguished promptly. Proactive efforts, such as fire sprinkler systems, fire alarms, and fire-resistant roofing and construction methods, can collectively lessen the likelihood and reduce the severity of urban fires (City of Riverside 2021a).

Wildfire-Conducive Conditions

Because of substantial open space areas and associated vegetation and wildlife habitats throughout the State, California is subject to fire hazards. Grassland or other vegetation in California is easily ignited, particularly in dry seasons. Wildfire is a serious hazard in high dry fuel load areas, particularly near areas of natural vegetation and steep slopes because fires tend to burn more rapidly on steeper terrain. Wildfire is also a serious hazard in areas of high wind given that fires will travel faster and farther geographically when winds are higher. Furthermore, wildfire is more likely in areas where electric power lines are located aboveground and could ignite vegetation where it comes into contact.

Vegetation

Vegetation is fuel to a wildfire, and it changes over time with seasonal growth and die-back. The relationship between vegetation and wildfire is complex, but generally some vegetation is naturally fire-resistant, while other vegetation is extremely flammable. For example, cured grass is much more flammable than standing trees (California Department of Forestry and Fire Protection [CAL FIRE] 2018). Grass is considered an open fuel in that oxygen has free access to promote the spread of fire. Additionally, weather and climate conditions, such as drought, can lead to increasingly dry vegetation with low-moisture content and, thus, higher flammability. Some plant types in California landscapes are fire-resistant, while others are fire-dependent for their seed germination cycles. Wildfire behavior depends on the type of fuel present, such as ladder, surface, and aerial fuels. Ladder fuels provide a path for a surface fire to climb upward, into the crowns of trees. Surface fuels include grasses, logs, and stumps low to the ground. Aerial fuels include limbs, foliage, and branches not in contact with the ground (CAL FIRE 2020a). Weather and climate conditions, including drought cycles and high winds, can lead to dry vegetation whose low moisture content increases its flammability.

Hillside Slope and Aspect

Sloping land increases susceptibility to wildfire because fire typically burns faster up steep slopes, and steep slopes may hinder firefighting efforts (CAL FIRE 2022a). Following severe wildfires, sloping land is more susceptible to landslide or flooding from increased runoff during substantial precipitation events. Landslides and surficial slope failure are most likely to occur in areas with more than 25 percent (14 degrees) slope (hillside areas) and along steep bluffs. Slope aspect is the direction that a slope faces, which determines how much radiated heat the slope will receive from the sun. Thus, slopes facing south to southwest will receive the most solar radiation; they tend to be warmer and the vegetation drier than on slopes facing a northerly to northeasterly direction, increasing the potential for wildfire ignition and spread (University of California 2018).

Weather and Atmosphere

Wind, temperature, and relative humidity are the most influential weather elements in fire behavior and susceptibility (National Park Service 2017). Fire moves faster under hot, dry, and windy conditions. Wind may also blow embers ahead of a fire, causing its spread. Drought conditions also lead to extended periods of excessively dry vegetation, increasing the fuel load and ignition potential.

Power Lines

Aboveground power lines have the potential to contribute to wildfire risk, especially when they are near or traverse wilderness areas. In some instances, high winds can blow nearby trees and branches into powerlines, sparking fires. Wind can also snap wooden poles, causing live wires to fall onto nearby grass or other fuel, igniting it. While the California Public Utilities Commission estimates only about 10 percent of California's wildfires are triggered by power lines, the frequency and severity of these wildfires has spurred the agency to make new requirements for power line safety practices (Atkinson 2018).

Wildfire Hazard Designations

In California, federal, State, and local agencies share responsibility for wildfire prevention and suppression. Federal agencies are responsible for federal lands in Federal Responsibility Areas (FRA).

The State of California has determined that some non-federal lands in unincorporated areas with watershed value are of statewide interest and have classified those lands as SRAs, which are managed by CAL FIRE. All incorporated areas and unincorporated lands not in FRAs or SRAs are classified as Local Responsibility Areas (LRA).

While nearly all of California is subject to some degree of wildfire hazard, there are specific natural and man-made features that make certain areas more hazardous. CAL FIRE is required by law to map areas of significant fire hazards based on fuel, terrain, weather, and other relevant factors (California Public Resources Code [PRC] Sections 4201 to 4204; California Government Code Sections 51175 to 51189). CAL FIRE maps fire hazards based on zones, referred to as FHSZ. There are three levels of severity: 1) Moderate FHSZs; 2) High FHSZs; and 3) Very High FHSZs (VHFHSZs). Only the VHFHSZs are mapped for LRAs. Each of the zones influence how people construct buildings and protect property to reduce risk associated with wildland fires in a particular location. Under State regulations, areas in VHFHSZs must comply with specific building and vegetation management requirements intended to reduce property damage and loss of life in those areas.

4.20.2 Existing Conditions

Regional Setting

A significant part of Riverside County (County) is undeveloped and consists of rugged topography with highly flammable vegetation. Hillside terrain has substantial risk, particularly in August, September, and October, when dry vegetation and hot dry Santa Ana winds coincide (County of Riverside 2019). Widespread fires after an earthquake, coupled with Santa Ana winds, constitute the worst-case wildfire scenario in the County and there is a statistically high chance that the worst-case fire suppression need could occur (County of Riverside 2019).

The major urban/rural interface areas of fire risk in the City of Riverside (City) include Mount Rubidoux, the Santa Ana River Basin, Lake Hills, Mockingbird Canyon/Monroe Hills, Sycamore Canyon, Box Springs Mountains, and La Sierra/Norco Hills. The Box Springs Mountains area has Very High risk fire susceptibility and Mockingbird Canyon and the Southern Sphere Area each have Very High/High/Moderate risk fire susceptibility (City of Riverside 2021b).

The City's General Plan Public Safety Element establishes multiple evacuation routes out of the City that can be accessed from major arterial roadways, including but not limited to Martin Luther King Boulevard to Interstate 215/State Route 60 (I-215/SR 60), University Avenue to I-215/SR 60 freeway, and Iowa Avenue to I-215/SR 60. The City's Emergency Operations Plan is periodically updated, during which these routes are confirmed as the most effective means of emergency response (City of Riverside 2021a).

Slope instability from wildfire scarring of the landscape can result in slope instability in the form of more intensive flooding and landslides. These post-fire slope soils and altered drainage patterns can result in soil creep on downslope sides of foundations and reduce lateral support. In the City, most natural slopes are relatively flat, generally less than 15 percent, although some slopes are more than 30 percent in the southeastern hillsides (City of Riverside 2021a). Steep topography, fractured and unconsolidated bedrock conditions, and expansive soils make hillside areas unstable, including those in the Box Springs Mountains area. Landsliding in these areas may result from heavy rain, erosion, removal of vegetation, seismic activity, wildfire, or combinations of these and other factors.

The Western Regional Climate Center maintains a weather monitoring station in the City of Corona, approximately 17.9 miles west of UCR. According to data collected at this weather station, most

precipitation is received from November through March, with an average annual rainfall of approximately 10.3 inches (U.S. Climate Data 2022). May through September is the driest part of the year and coincides with what was traditionally considered the fire season in California. However, increasingly persistent drought and climatic changes in California have resulted in drier winters. Fires during the autumn, winter, and spring months are becoming more common. Prevailing winds are from the northwest, as measured from March Air Reserve Base located approximately 11.6 miles southeast of the UCR campus, and from the west/northwest, as measured from the Riverside Municipal Airport located approximately 9.7 miles southwest of the UCR campus (Western Regional Climate Center 2022). In 2021, average maximum wind speeds ranged from 10.1 miles per hour to 17.4 miles per hour, with wind gusts averaging between 8.1 miles per hour to 11.2 miles per hour (World Weather Online 2022).

Campus and Project Site Setting

As shown on Figure 4.20-1, the project site is not located in a designated VHFHSZ or in an SRA. The closest VHFHSZ is located approximately 0.4-mile northeast of the project site in the neighborhood surrounding Highland Park, which backs up into an open space area. The nearest SRA to the project site is approximately 1.3 miles to the east (CAL FIRE 2022b).

The project site topography is relatively flat and is surrounded by urban development with no wildland vegetation in its vicinity. The project site is currently developed with an open recreational field with two baseball diamonds, two cell towers, surface parking, various landscaping including trees, and roadways.

4.20.3 Regulatory Framework

Federal

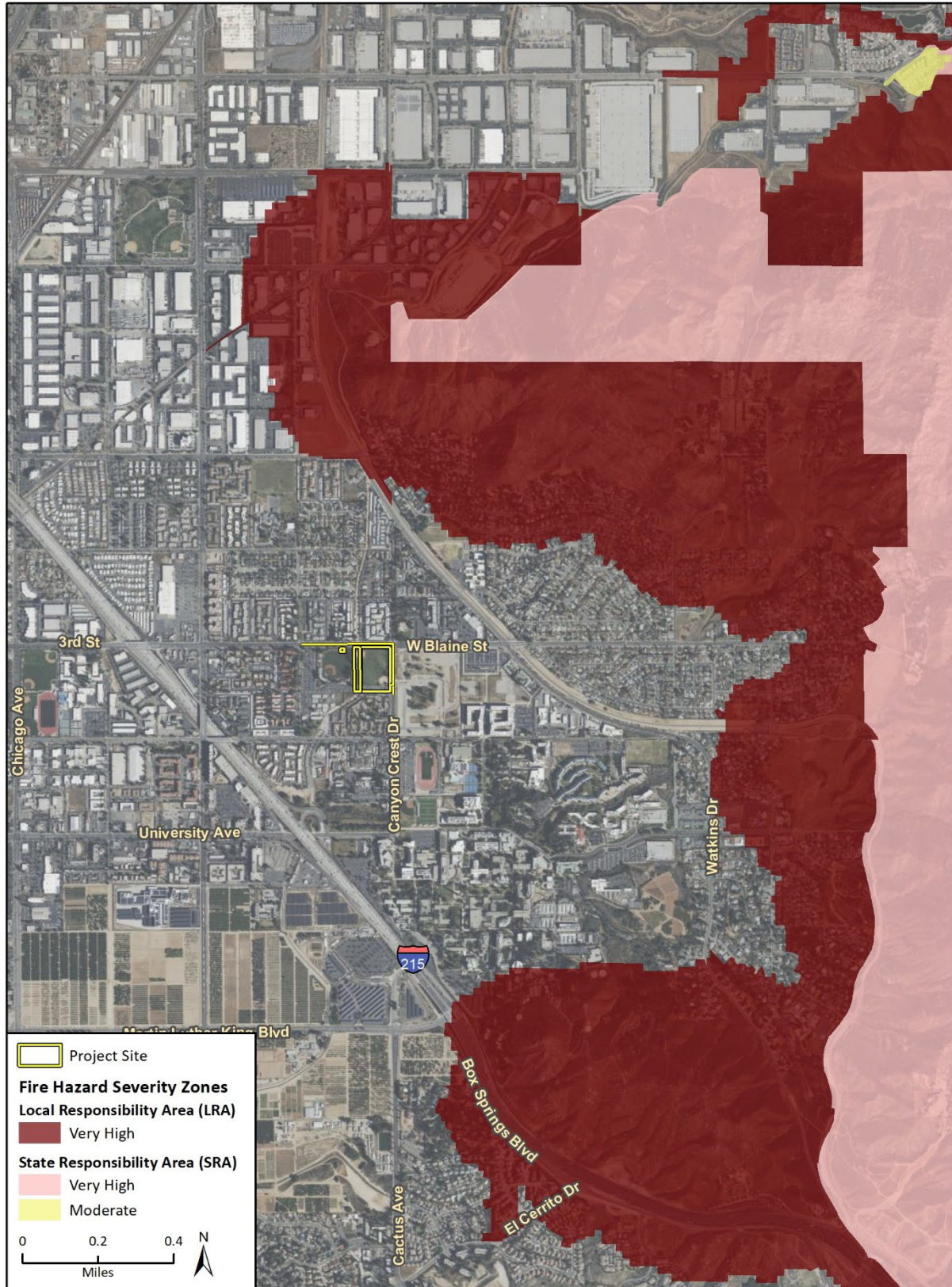
The Disaster Mitigation Act of 2000

The Disaster Mitigation Act of 2000 requires a State mitigation plan as a condition of disaster assistance. There are two different levels of State disaster plans: “Standard” and “Enhanced.” States that develop an approved Enhanced State Plan can increase the amount of funding available through the Hazard Mitigation Grant Program. The Act has also established new requirements for local mitigation plans.

Federal Emergency Management Agency

The Federal Emergency Management Agency (FEMA) was established in 1979 via executive order and is an independent agency of the federal government. In March 2003, FEMA became part of the U.S. Department of Homeland Security with the mission to lead the effort in preparing the nation for all hazards and effectively manage federal response and recovery efforts following any national incident. FEMA also initiates proactive mitigation activities, trains first responders, and manages the National Flood Insurance Program and the U.S. Fire Administration.

Figure 4.20-1 Fire Hazard Severity Zones in Project Site Vicinity



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Additional data provided by CalFire, 2007.

Fig. 4.20-1 Fire Hazard Severity Zones

National Fire Plan

The National Fire Plan was developed under Executive Order 11246 in August 2000, following a historic wildland fire season. Its intent was to establish plans for active response to severe wildland fires and their impacts to communities, while ensuring sufficient firefighting capacity. The plan addresses firefighting, rehabilitation, hazardous fuels reduction, community assistance, and accountability. It promotes close coordination among local, State, tribal, and federal firefighting resources by conducting training, purchasing equipment, and providing prevention activities on a cost-share basis. To help protect people and their property from potential catastrophic wildfire, the National Fire Plan directs funding to be provided for projects designed to reduce fire risks to communities. High-risk communities identified within the wildland-urban interface, the area where homes and wildlands intermix, were published in the Federal Register in 2001. At the request of Congress, the Federal Register notice only listed those communities neighboring federal lands (CAL FIRE 2018). CAL FIRE incorporates concepts from this plan into State fire planning efforts.

State

California Fire and Building Codes

The California Fire Code is (Part 9) Chapter 7 of California Code of Regulations (CCR) Title 24. It establishes the minimum requirements consistent with nationally recognized good practices to safeguard public health, safety, and general welfare from the hazards of fire, explosion, or dangerous conditions in new and existing buildings, structure, and premises and to provide safety and assistance to firefighters and emergency responders during emergency operations. It is the primary means for authorizing and enforcing procedures and mechanisms to ensure the safe handling and storage of any substance that may pose a threat to public health and safety. The California Fire Code regulates the use, handling, and storage requirements for hazardous materials at fixed facilities. The California Fire Code and the California Building Code use a hazard classification system to determine what protective measures are required to ensure fire safety and protect lives.

These measures may include construction standards, separations from property lines, and specialized equipment. To ensure these safety measures are met, the California Fire Code employs a permit system based on hazard classification. The provisions of this code apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal, and demolition of every building or structure or any appurtenances connected or attached to such building structures throughout California.

More specifically, California Fire Code (Part 9) Chapter 7 addresses fire-resistances-rated construction; California Building Code (Part 2) Chapter 7A addresses materials and construction methods for exterior wildfire exposure; California Fire Code Chapter 8 addresses fire-related interior finishes; California Fire Code Chapter 9 addresses fire protection systems; and California Fire Code Chapter 10 addresses fire-related means of egress, including fire apparatus access road width requirements. California Fire Code Section 4906 also contains regulations for vegetation and fuel management to maintain clearances around structures. These requirements establish minimum standards to protect buildings in FHSZs within SRAs and wildland-urban interface fire areas. This code includes provisions for ignition-resistant construction standards for new buildings.

California Fire Code Chapter 33, *Fire Safety During Construction and Demolition*, also includes requirements for a construction pre-fire plan, training, fire protection devices, regulations for refueling, fire clearances, precautions against fire, including prohibitions on smoking, on-site firewatch, and regulations for welding and electrical wiring.

Executive Order N-05-19

On January 9, 2019, Governor Gavin Newsom issued Executive Order N-05-19 to address the recent damaging wildfires happening in California. Executive Order N-05-19 directs CAL FIRE, in consultation with other State agencies and departments, to recommend immediate, medium and long-term actions to help prevent destructive wildfires. In response, CAL FIRE (with the contribution of several other State agencies) created the Community Wildfire Prevention & Mitigation Report, which contains recommendations to reduce the damage from wildfires across the State. Specifically, they focus on reducing wildfire fuel (such as vegetation clearing), long-term community protection (creating defensible space in communities), wildfire prevention, and forest health (CAL FIRE 2019).

California Fire Plan

The Strategic Fire Plan for California (California Fire Plan) is the State's road map for reducing the risk of wildfire. The most recent version of the Plan was finalized in August 2018 and directs each CAL FIRE Unit to prepare a locally specific fire management plan (CAL FIRE 2018). Pursuant to the California Fire Plan, individual CAL FIRE units are required to develop fire management plans for their areas of responsibility. These documents assess the fire situation within each of the 21 CAL FIRE units and six contract counties. The plans include stakeholder contributions and priorities and identify strategic areas for pre-fire planning and fuel treatment as defined by the people who live and work with the local fire problem. The plans are required to be updated annually. The CAL FIRE/Riverside County Strategic Fire Plan seeks to reduce firefighting costs and property losses, increase firefighter safety, and educate the public on fire prevention throughout Riverside County, including areas adjacent to UCR. With California's extensive wildland-urban interface situation, the list of high-risk communities extends beyond just those adjacent to federal lands, discussed above. The California State Forester (CAL FIRE Director) has the responsibility for managing the list of those high-risk communities. Areas near and adjacent to the UCR campus are included in high-risk evaluations, and vegetation management plans have been developed for these areas (CAL FIRE 2020a).

California Multi-Hazard Mitigation Plan

The California Governor's Office of Emergency Services (CalOES) prepares the State of California Multi-Hazard Mitigation Plan (SHMP) (CalOES 2018). The SHMP identifies hazard risks and includes a vulnerability analysis and a hazard mitigation strategy. The SHMP is federally required under the Disaster Mitigation Act of 2000 as a condition for the State to receive federal funding for disaster assistance.

California Emergency Response Plan

California has developed an emergency response plan to coordinate emergency services provided by federal, State, and local governments and private agencies (CalOES 2017). Responding to hazardous materials incidents is one part of this plan. The plan is administered by CalOES, which coordinates the responses of other agencies. When the City of Riverside experiences an emergency, an Emergency Operations Center may be opened. In the event an Emergency Operations Center is opened, emergency response team members coordinate efforts and work with local fire and police agencies, emergency medical providers, the California Highway Patrol, CAL FIRE, California Department of Fish and Wildlife, and California Department of Transportation.

State Emergency Plan

The foundation of California’s emergency planning and response is a statewide mutual aid system designed to ensure adequate resources, facilities, and other support is provided to jurisdictions whenever their own resources prove to be inadequate to cope with a given situation.

The California Disaster and Civil Defense Master Mutual Aid Agreement (California Government Code Sections 8555 through 8561) requires signatories to prepare operational plans to use in their jurisdiction and outside their area. These plans include fire and non-fire emergencies related to natural, technological, and war contingencies. The State of California, all State agencies, all political subdivisions, and all fire districts signed this agreement in 1950.

Section 8568 of the California Government Code, the “California Emergency Services Act,” states that “the State Emergency Plan shall be in effect in each political subdivision of the state, and the governing body of each political subdivision shall take such action as may be necessary to carry out the provisions thereof.” The Act provides the basic authorities for conducting emergency operations following the proclamations of emergencies by the Governor or appropriate local authority, such as a City Manager. The provisions of the act are further reflected and expanded on by appropriate local emergency ordinances. The Act further describes the function and operations of government at all levels during extraordinary emergencies, including war.

All local emergency plans are extensions of the State of California Emergency Plan (CalOES 2017). The State Emergency Plan conforms to the requirements of California’s Standardized Emergency Management System (SEMS), the system required by California Government Code Section 8607(a) for managing emergencies that involve multiple jurisdictions and agencies. The SEMS incorporates the functions and principles of the Incident Command System, the Master Mutual Aid Agreement, existing mutual aid systems, the operational area concept, and multi-agency or interagency coordination. Local governments must use SEMS to be eligible for funding of their response-related personnel costs under State disaster assistance programs. The SEMS consists of five organizational levels that are activated as necessary, including field response, local government, operational area, regional, and State. CalOES divides the State into several mutual aid regions. Riverside is in Region VI, and the Emergency Service Coordinator for Riverside County is Jose Ortega (CalOES 2022).

California Building Code

WILDLAND-URBAN INTERFACE BUILDING STANDARDS

On July 1, 2022, the Building Standards Commission updated the Office of the State Fire Marshal’s emergency regulations amending the CCR, Title 24, Part 2, known as the 2022 California Building Code. These codes include provisions for ignition-resistant construction standards in the wildland-urban interface.

Interface zones are dense housing adjacent to vegetation that can burn and must meet the following criteria:

1. Housing density class 2, 3, or 4
2. In moderate, high, or very high fire hazard severity zone
3. Not dominated by wildland vegetation (lifeform not herbaceous, hardwood, conifer, or shrub)
4. Spatially contiguous groups of 30-meter cells that are 10 acres and larger

Intermix zones are housing development interspersed in an area dominated by wildland vegetation and must meet the following criteria:

1. Not interface
2. Housing density class 2
3. Housing density class 3 or 4, dominated by wildland vegetation
4. In Moderate, High, or Very High FHSZ
5. Improved parcels only
6. Spatially contiguous groups of 30-meter cells 25 acres and larger

Influence zones have wildfire-susceptible vegetation up to 1.5 miles from an interface zone or intermix zone (CAL FIRE 2021).

California Public Resources Code

The PRC includes fire safety regulations that restrict the use of equipment that may produce a spark, flame, or fire; require the use of spark arrestors on construction equipment that use an internal combustion engine; specify requirements for the safe use of gasoline-powered tools in fire hazard areas; and specify fire suppression equipment that must be provided on-site for various types of work in fire-prone areas.

These regulations include the following:

- Earthmoving and portable equipment with internal combustion engines must be equipped with a spark arrestor to reduce the potential for igniting a wildland fire (PRC Section 4442)
- Appropriate fire suppression equipment must be maintained during the highest fire danger period, from April 1 to December 1 (PRC Section 4428)
- On days when a burning permit is required, flammable materials must be removed to a distance of 10 feet from any equipment that could produce a spark, fire, or flame, and the construction contractor must maintain the appropriate fire suppression equipment (PRC Section 4427)
- On days when a burning permit is required, portable tools powered by gasoline-fueled internal combustion engines must not be used within 25 feet of any flammable materials (PRC Section 4431)

California Division of the State Architect

Pursuant to California Government Code Section 4453.5, the California Division of the State Architect (DSA) has jurisdiction over the construction of State and school district buildings used by the public. California public K-12 schools must submit plans to the DSA to ensure they comply with code requirements and obtain DSA approval prior to the start of construction. One of DSA's primary roles is the fire and life safety review of public school buildings to ensure the facilities comply with fire and life safety codes. Through Interpretation of Regulations documents, the DSA promotes uniform statewide criteria relating to the design, construction, and inspection of public schools.

University of California, Riverside

UCR Emergency Operations Plan/Emergency Action Plan

As required by CCR Title 8, UCR prepared and implemented an Emergency Action Plan in July 2012. The latest revision to the Plan occurred in 2022. The document is intended to guide the emergency

response actions of all campus personnel during an emergency event, as well as provide standard actions in the case of a safety-threatening emergency. The UCR Emergency Operations Plan is a living document that is reviewed and modified on a five-year cycle and was last updated in 2022. The Emergency Operations Plan establishes policies, procedures, and organizational structure for the preparedness, response, and recovery of emergency events impacting the campus. To prepare for emergencies and disasters, campus buildings are expected to have an Emergency Action Plan. The UCR Emergency Action Plan contains provisions for evacuating campus buildings during emergency situations (UCR 2022). The Emergency Action Plan contains information including, but not limited to, emergency evacuation procedures, a map that shows the location of the building's emergency assembly areas, a building floor plan that shows emergency evacuation routes and the location of emergency equipment (e.g., fire extinguishers, fire alarm stations, emergency response kits), a list of pertinent safety personnel with contact information, and department or building-specific emergency response procedure. UCR Transportation and Parking Services (TAPS) also assists in the event of an evacuation and coordinates with various campus locales including the City, as necessary. Emergency assembly areas are identified on a campus map that also shows emergency call box locations.¹

UCR Campus Construction and Design Standards

The *UCR Campus Construction and Design Standards* for building, safety, and security specify fire suppression requirements to which design professionals must adhere when developing civil, architectural, structural, electrical, and mechanical systems as they pertain to fire response. UCR is its own enforcement agency except where the codes of the State Fire Marshal are involved. For these requirements, campus projects are subject to plan approval and enforcement authority by the State agency in which the Campus Fire Marshal, who is designated by the California State Fire Marshal, serves the State as a deputy.

As noted in these standards, overhead power lines are prohibited and must be installed underground. Pertaining to fire protection features, the following measures must be incorporated:

- New structures must be designed with adequate fire protection features pursuant to State law and the requirements of the State Fire Marshal. Building designs must be reviewed by appropriate campus staff and as agreed upon by the University of California.
- The adequacy of water supply and water pressure must be determined to ensure sufficient fire protection services, as established by the California Fire Code.
- Adequate access must be provided within 50 feet of the main entrance of occupied buildings to accommodate emergency ambulance service.
- Adequate access for fire apparatus must be provided pursuant to the California Fire Code as it relates to standpipes and sprinkler outlets.
- Service roads, turnaround, plazas, and pedestrian walks that may be used for fire or emergency vehicles must be constructed to withstand loads of up to 80,000 pounds or per California Fire Code requirements.

¹ The Emergency Assembly Campus Map in its most updated format can be viewed at: <https://campusmap.ucr.edu/emergency-assembly-areas>

2021 Long Range Development Plan

The UCR 2021 Long Range Development Plan (LRDP) is a general guide that discusses future land use patterns and development of facilities, circulation, open space, and infrastructure on the UCR campus. There are no objectives or policies in the 2021 LRDP related to wildfire.

Regional and Local

As noted in Section 4, *Environmental Impact Analysis*, of the EIR, UCR, as a constitutionally-created State entity, is not subject to municipal regulations of surrounding local governments for uses on property owned or controlled by UCR. However, UCR may consider, for coordination purposes, aspects of local plans and policies of the communities surrounding the campus when it is appropriate and feasible but is not bound by those plans and policies in its planning efforts. Nevertheless, a portion of the project site is not owned by UCR, and RUSD would be subject to compliance with local regulations for the proposed project to the extent those regulations are not preempted by State powers or rendered inapplicable pursuant to Government Code Section 53094.

City of Riverside General Plan

PUBLIC SAFETY ELEMENT

The City's General Plan Public Safety Element contains objectives, policies, programs, and actions that aim to reduce potential fire hazards and protect individuals from injuries caused by fires. Through implementation of the General Plan policies, the City will continue to reduce the potential for damage caused by dangerous fires by providing adequate firefighting services, protecting hillsides and urban-wildland interface areas, encouraging residents to plant and maintain drought-resistant, fire-retardant plant species on slopes to reduce the risk of brush fire and soil erosion, and working with the Riverside Fire Department to control hazardous vegetation (City of Riverside 2021b).

The Public Safety Element includes a discussion of fire prevention and response. Hills and canyon areas east, north/northeast, and south/southeast near the UCR campus are considered to present the greatest potential for wildfire that could threaten the urban/wildland interface, particularly during high wind or Santa Ana wind events. The Public Safety Element also discusses a transition from total fire suppression in brush and vegetation areas to one that allows for a more holistic and ecologically sensitive management of these fuels in a way that reduces fire threats (City of Riverside 2021b).

City of Riverside Local Hazard Mitigation Plan

The City's LHMP was developed with input from many organizations and stakeholders, including State and local fire departments, federal agencies, community groups, and land management agencies. The purpose of the LHMP is to help reduce the potential loss of human life and damage to property, natural resources, and cultural resources in the City due to wildfire and other natural and human-made disasters. The LHMP describes the wildfire risk and potential throughout the City, designates wildland areas, discusses assets at risk throughout the City, provides mitigation actions, and discusses resources available (City of Riverside 2018).

4.20.4 Impacts and Mitigation Measures

Significance Criteria

UCR utilizes the following 2023 CEQA Guidelines Appendix G significance criteria questions related to Wildfire to assess the proposed project.

If located in or near SRAs or lands classified as VHFHSZs, would the proposed project:

- a. Substantially impair an adopted emergency response plan or emergency evacuation plan?
- b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?
- c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?
- d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Methodology

Impacts related to wildfire hazards and risks were evaluated using FHSZ mapping for Riverside County, aerial imagery, and topographic mapping. Additionally, weather patterns related to prevailing winds and precipitation trends were considered as they relate to the spread and magnitude of wildfire.

Sources consulted include the Riverside County General Plan, City of Riverside General Plan, the UCR Emergency Operations Plan, background reports prepared for nearby plans and projects, and published geologic literature. The information obtained from these sources was reviewed and summarized to establish the existing conditions (described above) and identify potential environmental hazards that may result from implementation of the proposed project. In determining level of significance, the analysis assumes the proposed project would comply with relevant federal and State laws.

CEQA does not generally require an agency to consider the effects of existing environmental conditions on a proposed project's future users or residents. Consequently, impacts under the thresholds identified above would only be considered significant if the proposed project risks exacerbating those existing environmental conditions.

Project Impacts and Mitigation Measures

Threshold a: If located in or near SRAs or lands classified as VHFHSZs, would the proposed project substantially impair an adopted emergency response plan or emergency evacuation plan?

Impact WF-1 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD HAVE THE POTENTIAL TO SUBSTANTIALLY IMPAIR AN ADOPTED EMERGENCY RESPONSE PLAN OR EMERGENCY EVACUATION PLAN. THEREFORE, IMPLEMENTATION OF MITIGATION MEASURES MM WF-1 WOULD BE REQUIRED TO REDUCE IMPACTS TO LESS THAN SIGNIFICANT.

As shown in Figure 4.20-1, the nearest VHFHSZ to the project site is approximately 0.4 mile to the northeast, and the nearest SRA to the project site is approximately 1.3 miles to the east. UCR's Emergency Action Plan guides evacuation procedures in case of fire and other emergencies. UCR's TAPS personnel support evacuations and coordinate with other University departments and with the City, as necessary. The proposed project would be required to comply with UCR's Emergency Action Plan during construction and operation.

Construction

Construction of the proposed project would include decommissioning existing cell towers and removal of existing landscape and hardscape followed by the re-location of the T-Mobile Cell Tower and development of new structures, infrastructure, and site improvements on the project site. Temporary lane closures may be required during the installation of driveway and infrastructure improvements, but no road closures are anticipated. The Campus Fire Marshal would review plans during the plan review process to ensure adequate ingress/egress on the project site during construction activities is made available to emergency vehicles. In addition, evacuation routes would not be blocked during construction because temporary construction staging, and laydown areas would not occur within public roadways. Nevertheless, project construction activities would still have the potential to result in inadequate emergency access at the project site and in the surrounding area. Therefore, impacts to adopted emergency response and emergency evacuation plans would be potentially significant without mitigation. However, implementation of **Mitigation Measure MM WF-1** would reduce potential impacts to **less than significant with mitigation incorporated** by requiring preparation and implementation of a construction management plan.

In addition, as outlined in the Draft EIR for the 2021 LRDP, UCR would also require Continuing Best Practices (CBPs) as conditions of project approval. CBP WF-1 would ensure, to the extent feasible, that at least one unobstructed lane in both directions on campus roadways are maintained specifically in the event of a fire emergency. CBP WF-2 would have the Campus Fire Marshal disclose roadway closures to the City of Riverside Fire Department and identifies alternative travel routes, if necessary (UCR 2021). Implementation of these CBPs would further reduce the project's impact related to adopted emergency response plans and emergency evacuation plans, which would be less-than-significant with **Mitigation Measure MM WF-1** incorporated.

Operation

During operation, the proposed STEM Education Center would be accessible from existing roadways, which include Canyon Crest Drive and Blaine Street. These roadways would provide multiple ingress and egress points for emergency vehicles to access the project site. The relocated T-Mobile Cell Tower would be accessible from Blaine Street. Roadways in the vicinity of the project

site are not designated evacuation routes in the City's General Plan Public Safety Element (City of Riverside 2021a). The nearest major arterial roadway that is used as an evacuation route from the project site vicinity is Iowa Avenue to the I-215/SR 60 freeway, which is located approximately 0.4 mile to the west of the project site. From the project site, Iowa Avenue is accessible directly via Blaine Street. Operation of the proposed project would not substantially alter or otherwise interfere with public rights-of-way. As shown in Figure 2-4 in Section 2, *Project Description*, the proposed site plan includes space for vehicles and buses to queue on site for student drop-off and pick-up, which would minimize the potential for vehicles and buses to queue outside the project site on Canyon Crest Drive.

In addition, the proposed project would comply with applicable California Fire Code (Title 24, CCR, Part 9) requirements that include stringent building standards including fire suppression systems, materials, and design and fire-related Means of Egress, including Fire Apparatus Access Road width requirements. As continuing best practice and in compliance with the California Fire Code, the *Campus Construction and Design Standards* include fire protection features to which the proposed project would be required to adhere. The DSA and the Campus Fire Marshal would review project design and circulation plans during the plan review process, and the Campus Fire Marshal would inspect the proposed project prior to occupancy of the building to ensure all applicable Fire Codes are met, fire protection features are incorporated, and adequate ingress/egress on the project site is made available at all times to emergency vehicles. The Campus Fire Marshal and Federal Communications Commission (FCC)/Federal Aviation Administration (FAA) would also review the relocated T-Mobile Cell Tower to ensure the installation, design, and access meet all relevant codes and requirements. Therefore, project operation would not substantially impair an adopted emergency response plan or emergency evacuation plan, and impacts would be **less than significant**.

Mitigation Measures

The following mitigation measures would be required to address potential impacts to adopted emergency response plans and emergency evacuation plans.

MM WF-1 Construction Management Plan

A construction management plan shall be prepared and implemented for the proposed project. This plan shall include information related to truck route details, detours, and emergency access and shall be reviewed and approved by UCR prior to construction activity commencing. The construction management plan shall be prepared in accordance with the latest version of the California Manual on Uniform Traffic Control Devices and shall include the following measures:

- Identify proposed truck routes to be used
- Include a public information and signage plan to inform student, faculty and staff of the planned construction activities, roadway changes, and parking changes
- Store construction materials only in designated areas that minimize impacts to nearby roadways
- Limit lane closures during peak hours to the extent possible. Inform UCR before any lane closures
- Use California Department of Transportation-certified flag persons for any temporary lane closures to minimize impacts to traffic flow and to ensure safe access into and out of the project site

- Install traffic control devices as specified in the California Department of Transportation Manual of Traffic Controls for Construction and Maintenance Work Zones
- To minimize disruption of emergency vehicle access, consult with affected jurisdictions (Campus Police, Campus Fire Marshal, TAPS, City of Riverside Police Department, and City of Riverside Fire Department) to identify detours for emergency vehicles, which will then be posted by the construction contractor
- Coordinate with local transit agencies for temporary relocation of routes or bus stops in work zones, as necessary
- Coordinate with other projects under construction near the project site, so an integrated approach to construction-related traffic is developed and implemented

In addition, the following Continuing Best Practices (CBP) would be included as conditions of project approval.

CBP WF-1 – Construction – Traffic Control. To the extent feasible, the campus shall maintain at least one unobstructed lane in both directions on campus roadways. At any time only a single lane is available, the campus shall provide a temporary traffic signal, signal carriers (i.e., flag-persons), or other appropriate traffic controls to allow travel in both directions. If construction activities require the complete closure of a roadway segment, the campus shall provide alternate routes and appropriate signage.

CBP WF-2 – Construction – Alternative Travel Routes. Prior to campus construction activities and/or roadway closures, the Campus Fire Marshal, as delegated by the State Fire Marshal and in cooperation with the City of Riverside Fire Department, shall ensure adequate access for emergency vehicles is provided or identify alternative travel routes.

Significance after Mitigation

Implementation of **Mitigation Measure MM WF-1** would reduce potential impacts to adopted emergency response and emergency evacuation plans to a less than significant level by minimizing the potential for project construction to result in inadequate emergency access to the construction site or nearby structures.

<p>Threshold b: If located in or near SRAs or lands classified as VHFHSZs, would the proposed project due to slope, prevailing winds, and other factors, exacerbate wildfire risks thereby exposing project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?</p>
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Impact WF-2 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT EXACERBATE WILDFIRE RISKS EXPOSING PROJECT OCCUPANTS TO POLLUTANT CONCENTRATIONS FROM A WILDFIRE OR THE UNCONTROLLED SPREAD OF A WILDFIRE DUE TO SLOPE, PREVAILING WINDS, AND OTHER FACTORS. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As shown in Figure 4.20-1, the nearest VHFHSZ to the project site is approximately 0.4 mile to the northeast, and the nearest SRA to the project site is approximately 1.3 miles to the east. The project site topography is relatively flat and is surrounded by urban development.

Construction

Project construction activities may involve the use of hazardous materials such as petroleum products (see Section 4.9, *Hazards and Hazardous Materials*). UCR Environmental Health & Safety and the Campus Fire Marshal are charged with implementing measures, directly and through campus departments, designed to ensure compliance with applicable federal and State laws and regulations related to the proper use, storage, and transport of hazardous materials during construction activities. Construction equipment would be subject to standard operating procedures that would limit sources of ignition that could generate a wildfire. All construction activities on campus, including the project site, require fire safety protocols, including, but not limited to, on-site fire extinguishing equipment. Compliance with applicable federal and State laws and regulations related to the proper use, storage, and transport of hazardous materials would reduce the risk of wildfire ignition from the use of hazardous materials during construction activities. As such, project construction would not exacerbate wildfire risks exposing project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire due to slope, prevailing winds, and other factors, and impacts would be **less than significant**.

Operation

Operation of the proposed STEM Education Center would introduce new occupants to the project site, including students, faculty, staff, and visitors. Operation of the relocated T-Mobile Cell Tower would be similar to that of the existing T-Mobile Cell Tower, and maintenance of the associated improvements area would be similar to that of existing conditions, which include infrequent inspection and maintenance. Once installed within the existing public rights-of-way, the proposed utilities improvements would also require infrequent inspection and maintenance similar to that of other City infrastructure maintenance and operations.

Factors for assessing existing wildfire risk potential include drought, slope steepness, wind speeds, flammability of vegetation, and burn history and severity (i.e., the length of time from the last fire and location of last proximate fire). Since fires burn faster uphill, slope steepness is a crucial factor in fire spread. Vegetation provides fuel for fires, and low relative humidity and strong winds are critical weather conditions that could lead to rapid or dramatic increases in wildfire activity (CAL FIRE 2020b).

The UCR campus is subject to Santa Ana winds, which are strong dry offshore winds that affect southern California in autumn and winter. They can range from hot to cold, depending on the prevailing temperatures in the source regions, the Great Basin, and upper Mojave Desert (Tufts University 2018). The winds are known for the hot dry weather (often the hottest of the year) that they bring in the fall and are infamous for fanning regional wildfires. Santa Ana winds are a type of downslope windstorm that occur over southern California from the coastal mountains westward and from Ventura County southward to the Mexican border (Rolinski et al. 2016).

Wildfire smoke produced from combustion of natural biomass contains thousands of individual compounds, including particulate matter, carbon dioxide, water vapor, carbon monoxide, hydrocarbons and other organic chemicals, nitrogen oxides, and trace minerals. Wildfires can move into the wildland urban interface, burning homes and structures and thereby consuming man-made materials in addition to natural fuels. Wildfire behavior will vary depending on natural fuel type; fires in open space fuels can range from mild to severe and can spread very slowly or extremely rapidly depending on weather and fuel conditions. Wildfires in open space areas can last for weeks and can have air quality impacts. Smoke levels in proximate and downwind populated areas can be difficult to predict (United States Environmental Protection Agency 2019).

The proposed project would be located on a previously-disturbed site with relatively flat topography where fire risk is generally minimal. There are no steep, vegetated slopes and hillsides and no wildland vegetation in proximity to the project site. The nearest area with wildland vegetation is approximately 1.3 miles east of the project site. Therefore, the likelihood of the ignition of a wildfire at or around the project site is low. The proposed project would be subject to the *Campus Construction and Design Standards* and building codes (including the UCR Fire Prevention and Life Safety Policy), which require all construction, alterations, renovations, and interior space dividers be subject to California Fire Code review and inspection by the DSA as well as UCR's Building and Safety Division, Fire Prevention, Environmental Health & Safety, Office of Emergency Management, and/or other applicable UCR departments and staff. This includes approval of plans and specifications to verify compliance with applicable codes, including the following:

- Title 24, CCR, Building Regulations
- Uniform Fire Code
- National Fire Codes of the National Fire Protection Association
- Title 19, CCR, Public Safety
- Title 8, CCR, Occupational Safety
- California Health and Safety Code
- FCC/FAA requirements for the relocated T-Mobile Cell Tower

The proposed project is required to be constructed to modern fire safety standards, which requires plan reviews, during which the DSA, Campus Building Official, and Campus Fire Marshal would review the project plans to ensure that the design of the proposed structure complies with the required codes. The Campus Fire Marshal and FCC/FAA would also review the relocated T-Mobile Cell Tower to ensure the installation, design, and access meet all relevant codes and requirements. The proposed project would be required to comply with the California Fire Code regarding emergency/fire access and use of building materials that would limit the spread of wildfire to the greatest extent possible. The California Fire Code includes safety measures that minimize the threat of fire, including ignition-resistant construction with exterior walls of noncombustible or ignition resistant material from the surface of the ground to the roof system and sealing any gaps around doors, windows, eaves and vents to prevent intrusion by flame or embers. Development would also be required to meet California Building Code requirements, including CCR Title 24, Part 2, which includes specific requirements related to exterior wildfire exposure. CCR Title 14 sets forth the minimum development standards for emergency access, setback, signage, and water supply, which help prevent loss of structures or life by reducing wildfire hazards risk.

Small quantities of hazardous materials may be used during operation of the proposed project for STEM-related educational activities. As previously mentioned, UCR Environmental Health & Safety is charged with implementing measures, directly and through campus departments, designed to ensure compliance with applicable federal and State laws and regulations related to the proper use, storage, and transport of hazardous materials. Specifically, all individuals who handle hazardous materials are appropriately trained and are provided with Material Safety Data Sheets, which provide chemical safety information about precautions for protecting against known hazards associated with the material and identify protocols for proper storage and disposal of chemicals. In addition, the Campus Fire Marshal is responsible for ensuring compliance with the proper storage, handling, and use of explosive, flammable, combustible, toxic, corrosive, and other hazardous materials. Compliance with applicable federal and State laws and regulations related to the proper

use, storage, and transport of hazardous materials would reduce the risk of wildfire ignition from the potential use of these small quantities of hazardous materials.

For all the reasons discussed above, project operation would not exacerbate wildfire risks exposing proposed project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance after Mitigation

Impacts would be less than significant without mitigation.

Threshold c: If located in or near SRAs or lands classified as VHFHSZs, would the proposed project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Impact WF-3 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT REQUIRE THE INSTALLATION OR MAINTENANCE OF ASSOCIATED INFRASTRUCTURE THAT MAY EXACERBATE FIRE RISK OR THAT MAY RESULT IN TEMPORARY OR ONGOING IMPACTS TO THE ENVIRONMENT. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As shown in Figure 4.20-1, the nearest VHFHSZ to the project site is approximately 0.4 mile to the northeast, and the nearest SRA to the project site is approximately 1.3 miles to the east. The proposed project does not involve the installation of infrastructure such as roads, fuel breaks, aboveground power lines, or emergency water sources that may exacerbate fire risk or result in temporary or ongoing impacts to the environment. The proposed project would include re-location of the existing T-Mobile Cell Tower currently on the northwestern corner of the project site. The T-Mobile Cell Tower would be re-located to the recreational fields adjacent to the project site, which are slightly further from the nearest VHFHSZ and SRA and would not represent a new source of potential wildfire risk because this area has been previously developed and not adjacent to wildland vegetation. Infrastructure improvements, including the proposed utilities improvements, would be installed or connected underground. Therefore, the proposed project would not require the installation or maintenance of associated infrastructure that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment. Impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance after Mitigation

Impacts would be less than significant without mitigation.

Threshold d: If located in or near SRAs or lands classified as VHFHSZs, would the proposed project expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Impact WF-4 IMPLEMENTATION OF THE PROPOSED PROJECT WOULD NOT EXPOSE PEOPLE OR STRUCTURES TO SIGNIFICANT RISKS, INCLUDING DOWNSLOPES OR DOWNSTREAM FLOODING OR LANDSLIDES, AS A RESULT OF RUNOFF, POST-FIRE SLOPE INSTABILITY, OR DRAINAGE CHANGES. IMPACTS WOULD BE LESS THAN SIGNIFICANT, AND NO MITIGATION MEASURES WOULD BE REQUIRED.

As shown in Figure 4.20-1, the nearest VHFHSZ to the project site is approximately 0.4 mile to the northeast, and the nearest SRA to the project site is approximately 1.3 miles to the east. The project site topography is relatively flat and is surrounded by urban development.

Construction

The proposed project would result in short-term soil-disturbing activities, including grading and removal of trees and other vegetation, that could lead to increased erosion. However, the proposed project would be required to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) to comply with National Pollutant Discharge Elimination System (NPDES) requirements for construction site stormwater discharges, as described in greater detail in Section 4.10, *Hydrology and Water Quality*. The SWPPP would include measures such as: design and construction of cut and fill slopes in a manner that minimizes erosion, protection of exposed slope areas, control of surface flows over exposed soils, use of wetting or sealing agents or sedimentation ponds, limiting soil excavation in high winds, construction of berms and runoff diversion ditches, and use of sediment traps, such as hay bales. Compliance with NPDES requirements would ensure that project construction activities would not destabilize soils such that substantial risks related to post-fire landslides or debris flow would be created. As such, project construction would not expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes, and impacts would be **less than significant**.

Operation

Severe wildfires typically damage forest or shrub canopy, ground-level plants, and the soil itself. In general, this can result in increased runoff after intense rainfall, which can put homes and other structures below a burned area at risk of localized floods and landslides. As noted in the Draft EIR for the 2021 LRDP, the risk for deep-seated landslides within the UCR campus is low, even on natural slopes in the East Campus area, because of the sturdy nature of the alluvial materials and bedrock underlying most of the campus and the fact that these materials have no weak planar structures developed that could trigger a large, deep-seated landslide (UCR 2021). The proposed project would be located on a previously-disturbed site with relatively flat topography located away from steep, vegetated slopes and hillsides where fire-related slope instability and increased runoff risk is greatest. Therefore, project operation would not expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes, and impacts would be **less than significant**.

Mitigation Measures

No mitigation measures would be required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.20.5 Cumulative Impacts

A project's environmental impacts are "cumulatively considerable" if the "incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects" (CEQA Guidelines Section 15065[a][3]). To analyze cumulative wildfire impacts, this Draft EIR considered anticipated development in the City of Riverside, City of Moreno Valley, and Riverside County as outlined in Section 4, *Environmental Impact Analysis*. This geographic scope is appropriate for analyzing cumulative wildfire impacts because wildfires can affect large areas.

Existing cumulative development in the City, Moreno Valley, and unincorporated Riverside County is subject to compliance with local emergency response plans, which coordinate efforts among agencies and local entities in the event of a wildfire. This includes coordinating evacuation procedures for residents and businesses in the region. However, there is a chance that construction or operation of new cumulative development would interfere with emergency response and evacuation plans. Therefore, cumulative impacts are considered significant. As outlined above under Impact WF-1, implementation of **Mitigation Measure MM WF-1** would be required for the proposed project to reduce potential impacts to adopted emergency response and emergency evacuation plans to a less than significant level by minimizing the potential for project construction to result in inadequate emergency access to the construction site or nearby structures. In addition, UCR would require implementation of the CBPs detailed in the Draft EIR for the 2021 LRDP for the proposed project that would ensure, to the extent feasible, that at least one unobstructed lane in both directions on campus roadways are maintained specifically in the event of a wildfire emergency and that the Campus Fire Marshal discloses roadway closures to the City of Riverside Fire Department and identify alternative travel routes, if necessary. Therefore, the project's contribution would **not be cumulatively considerable with mitigation incorporated (less than significant with mitigation incorporated)**.

Most land surrounding the project site is suburban development with the nearest VHFHSZ approximately 0.4 mile to the northeast and the nearest open space areas located approximately 0.5 mile to the northeast; the nearest SRA to the project site is approximately 1.3 miles to the east (see Figure 4.20-1). Cumulative wildfire-related impacts could be significant if cumulative development were to occur in rural or high fire hazard areas that could exacerbate risks due to location on steep slopes, in high-wind areas, or areas of historical wildfire burn areas. However, cumulative development in the City, Moreno Valley, and throughout Riverside County would increase the density of development, which would help reduce wildfire risk given that structures in areas with low- to intermediate-housing density are most likely to burn and fire frequency also tends to be highest at low to intermediate housing density (California Natural Resources Agency 2018). All cumulative development would be required to assess potential for interfering with regional evacuation plans, increasing wildfire risk, and increasing exposure to potential post-fire landslides. Cumulative development and infrastructure would be subject to statewide standards for fire safety in the California Fire Code. However, existing codes and regulations cannot fully prevent wildfires from damaging structures or populations or prevent wildfires from igniting and occurring. If wildfires occur, there would be the need for fire roads, fire breaks and other measures to fight and contain the fire. Following the fire, affected slopes in the cumulative assessment area could be

subject to erosion and landslides. Therefore, cumulative impacts related to wildfire hazards would be significant.

The proposed project would be located on a previously-disturbed site with relatively flat topography located away from steep, vegetated slopes and hillsides with no wildland vegetation in the immediate proximity. Therefore, the likelihood of the ignition of a wildfire on or around the project site is low as is the likelihood of exposure of people or structures to significant post-fire risks. The proposed project would be required to comply with all applicable fire safety standards for building construction and the use of hazardous materials during project construction and operation. The proposed project would not include the installation of infrastructure such as roads, fuel breaks, power lines, or emergency water sources that may exacerbate fire risk or result in temporary or ongoing impacts to the environment. Therefore, the proposed project's contribution to cumulative wildfire hazard impacts would **not be cumulatively considerable (less than significant)**.

4.20.6 References

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5 Other CEQA Required Discussions

This section discusses growth-inducing impacts and significant irreversible environmental changes resulting from the proposed project. As part of this analysis, the EIR must also identify the following: 1) significant environmental effects that cannot be avoided if the proposed project is implemented, 2) significant irreversible environmental changes that would result from implementation of the proposed project, and 3) growth-inducing impacts of the proposed project.

5.1 Significant and Unavoidable Adverse Impacts

Public Resources Code Section 21100(b)(2) and CEQA Guidelines Section 15126.2(c) requires EIRs to include a discussion of the significant environmental effects that cannot be avoided if the proposed project is implemented. As documented in Section 4, *Environmental Impact Analysis*, of this EIR, after implementation of the recommended mitigation measures, all impacts associated with the proposed project would be reduced to a less-than-significant level. Therefore, no significant and unavoidable impacts would occur as a result of the implementation of the proposed project.

5.2 Significant and Irreversible Environmental Changes

The CEQA Guidelines require a discussion of any significant irreversible environmental changes that would be caused by a project. Specifically, CEQA Guidelines Section 15126.2(d) states:

Uses of nonrenewable resources during the initial and continued phases of the project may be irreversible, since a large commitment of such resources makes removal or nonuse thereafter unlikely. Primary impacts and, particularly, secondary impacts (such as highway improvement which provides access to a previously inaccessible area) generally commit future generations to similar uses. Also, irreversible damage can result from environmental accidents associated with the project. Irretrievable commitments of resources should be evaluated to assure that such current consumption is justified.

Generally, a project would result in significant irreversible environmental changes if one of the following would occur:

- The primary and secondary impacts would generally commit future generations to similar uses
- A project would involve uses in which irreversible damage could result from any potential environmental accidents associated with the project
- A project would involve a large commitment of nonrenewable resources
- Proposed consumption of resources is not justified (e.g., a project involves the wasteful use of energy)

The proposed project involves re-development of open recreational fields and surface parking lot and re-location of a cell tower on the UCR East Campus. Construction and operation of the proposed project would involve an irreversible commitment of construction materials and non-renewable energy resources. The proposed project would involve the use of building materials and energy, some of which are non-renewable resources, to construct the overall building floor area of

approximately 80,000 gross square feet. Consumption of these resources would occur with any development in the region and is not unique to the proposed project.

The proposed project would also irreversibly increase local demand for non-renewable energy resources such as petroleum products and natural gas. However, increasingly efficient building design would offset this demand to some degree by reducing energy demands of the project. As discussed in Section 2, *Project Description*, of the EIR, the proposed project would meet minimum LEED Silver standards, thereby using less water and energy and reducing greenhouse gas (GHG) emissions when compared to a building that is not built to LEED standards. In addition, the proposed project would be subject to the energy conservation requirements of the California Energy Code (Title 24, Part 6, of the California Code of Regulations, *California's Energy Efficiency Standards for Residential and Nonresidential Buildings*) and the California Green Building Standards Code (Title 24, Part 11 of the California Code of Regulations). The California Energy Code provides energy conservation standards for all new and renovated buildings constructed in California, and the California Green Building Standards Code requires solar access, natural ventilation, and stormwater capture. Furthermore, the proposed project would be required to comply with the version of the UC Policy on Sustainable Practices in effect in September 2018, which includes policies related to renewable energy, environmentally conscious design and materials, and enhancement of pedestrian and bicycle use, which would further reduce environmental impacts. Consequently, the proposed project would not use unusual amounts of energy or construction materials, and impacts related to consumption of non-renewable and slowly-renewable resources would be less than significant. Again, consumption of these resources would occur with any development in the region and is not unique to the proposed project.

Operation of the proposed project would incrementally increase regional air pollutant and GHG emissions. However, as discussed in Section 4.3, *Air Quality*, and Section 4.8, *Greenhouse Gas Emissions*, of the EIR, development and operation of the proposed project would not generate air quality or GHG emissions that would result in a significant impact.

The proposed project would also require a commitment of law enforcement, fire protection, water supply, wastewater treatment, and solid waste disposal services. However, as discussed in Section 4.15, *Public Services*, and Section 4.19, *Utilities and Service Systems*, of the EIR, impacts to these service systems would not be significant.

5.3 Growth Inducing Impacts

Section 15126.2(e) of the CEQA Guidelines requires a discussion of a proposed project's potential for growth inducing impacts, and more specifically, mandates discussion of the ways in which the proposed project could foster economic or population growth or the construction of additional housing, either directly or indirectly, in the surrounding environment. Included in this are projects that would remove obstacles to population growth (a major expansion of a wastewater treatment plant might, for example, allow for more construction in service areas). Increases in the population may tax existing community service facilities, requiring construction of new facilities that could cause significant environmental effects. Furthermore, the characteristics of some projects may encourage or facilitate other activities that could significantly affect the environment, either individually or cumulatively. As noted in Section 15126.2(e) of the CEQA Guidelines, it must not be assumed that growth in any area is necessarily beneficial, detrimental, or of little significance to the environment.

5.3.1 Population Growth

As discussed in Section 4.14, *Population and Housing*, of the EIR, the proposed project would not directly generate population growth because it would not include residences. The proposed STEM Education Center would require approximately 60 new employees, which may indirectly increase the population if they relocate to the local region. However, given the nature of these employment opportunities, it is likely that employees would be drawn from the existing regional workforce and would not result in new population growth. Operation and maintenance of the relocated T-Mobile Cell Tower and maintenance of the proposed utilities improvements would be similar to the infrequent inspection and maintenance activities as the existing T-Mobile Cell Tower and infrastructure within the public rights-of-way.

5.3.2 Economic Growth

The proposed project would generate temporary employment opportunities during construction. Because construction workers would be expected to be drawn from the existing regional work force, construction of the proposed project would not be growth-inducing from a temporary employment standpoint. Additionally, construction would be relatively short-term and would be completed in less than three years; therefore, it would be unlikely that temporary workers would move to the region permanently for construction jobs. The proposed project would add approximately 60 long-term employment opportunities associated with operation of the STEM Education Center. SCAG forecasts that 360,000 jobs will be added in the City between 2016 and 2045 (SCAG 2020). The approximately 60 new jobs associated with the proposed project would be approximately 0.02 percent of job growth between 2016 and 2045 and, therefore, would be well within employment forecasts. As a result, the proposed project would not be expected to induce substantial economic expansion to the extent that direct physical environmental effects would result.

5.3.3 Removal of Obstacles to Growth

Growth in an area may result from the removal of physical impediments or restrictions to growth as well as the removal of planning impediments resulting from land use plans and policies. In this context, physical growth impediments may include nonexistent or inadequate access to an area or the lack of essential public services, while planning impediments may include restrictive zoning and/or land use designations. The proposed project would be implemented within the existing campus boundaries, in which established land uses and supporting infrastructure exist (roads, water distribution, wastewater and drainage collection, and energy distribution). No new roads would be required, and connections would be made to existing utility infrastructure adjacent to the location of the proposed STEM Education Center with the exception of the proposed utilities improvements, which would be installed to extend additional electrical service and sewer capacity to the proposed school. The proposed utilities improvements would only be intended to serve the proposed project and would not remove an obstacle to other growth, such as increased density, in the local area. Therefore, implementation of the proposed project would not remove an obstacle to growth.

5.4 References

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6 Alternatives

6.1 Introduction

In accordance with California Environmental Quality Act (CEQA) Guidelines Section 15126.6, this Environmental Impact Report (EIR) section contains a comparative impact assessment of alternatives to the proposed project. The primary purpose of an alternatives analysis under CEQA is to provide decision-makers and the public with a reasonable range of potentially feasible alternatives to a proposed project that could attain most of the basic project objectives, while avoiding or reducing any of the project's significant adverse environmental effects.

Specifically, CEQA requires an EIR to describe a reasonable range of alternatives to a project or to the location of a project that feasibly attain most of the project's basic objectives but avoids or substantially lessens any of the project's significant environmental impacts. CEQA also requires an EIR to evaluate the comparative merits of the alternatives. CEQA Guidelines Section 15126.6(a) requires EIRs to describe:

A range of reasonable alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and evaluate the comparative merits of the alternatives. An EIR need not consider every conceivable alternative to a project. Rather, it must consider a reasonable range of potentially feasible alternatives that will foster informed decision making and public participation. An EIR is not required to consider alternatives which are infeasible. The lead agency is responsible for selecting a range of project alternatives for examination and must publicly disclose its reasoning for selecting those alternatives. There is no ironclad rule governing the nature or scope of the alternatives to be discussed other than the rule of reason.

As indicated above, the range of alternatives in an EIR is governed by a "rule of reason" that requires an EIR to set forth only those alternatives necessary to permit a reasonable choice. An EIR need not consider every conceivable alternative to a project, nor every alternative that was actually considered by the agency. Rather, the alternatives must be limited to ones that meet most of the basic project objectives, are feasible, and would avoid or substantially lessen at least one of the significant environmental effects of the project. CEQA Guidelines Section 15126.6(b) further states the purpose of the alternatives analysis is as follows:

Because an EIR must identify ways to mitigate or avoid the significant effects that a project may have on the environment (Public Resources Code Section 21002.1), the discussion of alternatives shall focus on alternatives to the project or its location which are capable of avoiding or substantially lessening any significant effects of the project, even if these alternatives would impede to some degree the attainment of the project objectives, or would be more costly.

The CEQA Guidelines require an EIR include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the proposed project. If an alternative would cause one or more significant effects in addition to those that would be caused by the project as proposed, the significant effects of the alternative must be discussed, but in less detail than the significant effects of the project as proposed (CEQA Guidelines Section 15126.6[d]). The CEQA

Guidelines further require the “no project” alternative be considered (CEQA Guidelines Section 15126.6[e]). The purpose of describing and analyzing a no project alternative is to allow decision-makers to compare the impacts of approving a proposed project with the impacts of not approving the proposed project. If the no project alternative is the environmentally superior alternative, CEQA requires the EIR “shall also identify an environmentally superior alternative among the other alternatives” (CEQA Guidelines Section 15126.6[e][2]).

In defining “feasibility” (e.g., feasibly attain most of the basic objectives of the project), CEQA Guidelines Section 15126.6(f)(1) states, in part:

Among the factors that may be taken into account when addressing the feasibility of alternatives are site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, jurisdictional boundaries (projects with a regionally significant impact should consider the regional context), and whether the proponent can reasonably acquire, control or otherwise have access to the alternative site (or the site is already owned by the proponent). No one of these factors establishes a fixed limit on the scope of reasonable alternatives.

In determining what alternatives should be considered in the EIR, it is important to consider the objectives of the project, the project’s significant effects, and unique project considerations. These factors are crucial to the development of alternatives that meet the criteria specified in CEQA Guidelines Section 15126.6(a).

Analysis of three alternatives to the proposed project is provided to allow decision-makers to consider the proposed project in light of hypothetical alternative development scenarios, thereby promoting CEQA’s purpose as an information disclosure statute. This analysis is guided by the following overarching considerations set forth under CEQA Guidelines:

- An EIR need not consider every conceivable alternative to a project;
- An EIR should identify alternatives that were considered by the lead agency, but rejected as infeasible during the scoping process;
- Reasons for rejecting an alternative include:
 - Failure to meet most of the basic project objectives;
 - Infeasibility; or
 - Inability to avoid significant environmental effects.

6.2 Summary of Significant and Unavoidable Impacts

As required under CEQA, the intent of this alternatives analysis is to consider options that could reduce the proposed project’s significant impacts. Please see the Executive Summary for a summary of the impact determination for all the environmental resource areas. As stated therein, implementation of the proposed project would not result in any significant and unavoidable impacts.

6.3 Attainment of Project Objectives

In determining what alternatives should be considered in the EIR, the objectives of a project must be considered, as attainment of most of the basic objectives forms one of the tests of whether an alternative is feasible (see discussion above). UCR identified the following objectives, as previously described (see Section 2, *Project Description*):

- Establish a flagship Science, Technology, Engineering, and Mathematics (STEM) education facility at a safe and secure location within the Riverside Unified School District (RUSD) to meet the emerging science, technology, engineering, and mathematics needs and demands of RUSD's service population where students can learn to grow into careers in these fields;
- Promote, foster, and enrich an early college environment through co-location of the STEM education facility with a research and science-based institution such as the University of California, Riverside (UCR) to facilitate collaboration;
- Improve access for approximately 1,200 RUSD students every school year to a state-of-the-art STEM education facility while limiting disruption to existing RUSD facilities;
- Provide a STEM site to support students in grades 9 through 12, with adequate support spaces, multi-functional indoor and outdoor spaces, amenities, and associated infrastructure while meeting applicable UCR and University of California (UC) policies and guidelines;
- Enhance the high-school student experience by integrating in-class academic STEM curriculum with hands-on interactive practicum opportunities on campus and improved student-to-student collaboration;
- Promote environmental and sustainability principles through efficient use of space and thoughtful building and landscape designs that integrate and enhance the existing neighboring communities;
- Develop the UCR East Campus in a manner compatible with land uses identified in the UCR Long Range Development Plan.

6.4 Alternatives Considered but Rejected

As described above, CEQA Guidelines Section 15126.6(c) provides that the range of potential alternatives for the project shall include those that could feasibly accomplish most of the basic objectives of the project and could avoid or substantially lessen one or more of the significant effects. Alternatives that fail to meet the fundamental project purpose need not be addressed in detail in an EIR.

An EIR is also required to identify any alternatives that were considered by the lead agency but were rejected during the planning or scoping process, and briefly explain the reasons underlying the lead agency's determination. The following alternatives were considered by UCR and RUSD but are not evaluated further in this EIR, for the reasons discussed:

- **Program Expansion of STEM Instruction at Existing Schools in RUSD:** Under this potential alternative, RUSD would expand STEM instruction at existing high schools in RUSD rather than constructing a new STEM Education Center. To accomplish this, new buildings and facilities equipped specifically for STEM education would need to be constructed at existing RUSD schools. This alternative would not achieve most of the Project Objectives outlined in Section 6.3, *Attainment of Project Objectives*, because it would not establish a flagship STEM

education facility or promote, foster, and enrich an early college environment through co-location of the STEM education facility with a research and science-based institution. In addition, this alternative would result in significant disruption to existing RUSD facilities associated with construction activities and likely would not result in the same level of support spaces, multi-functional indoor and outdoor spaces, and amenities due to space constraints at existing RUSD schools. Furthermore, this alternative would not facilitate student-to-student collaboration across different RUSD schools. Thus, because this alternative would not meet most of the basic project objectives relative to the proposed project, this alternative is not feasible and is not considered in further detail.

- **STEM Education Center at Watkins Drive Site:** Under this potential alternative, the RUSD STEM Education Center would be constructed on UCR's Glen Mor Field located at the southwest corner of Watkins Drive and Valencia Hill Road. Similar to the proposed project, the STEM Education Center under this alternative would accommodate approximately 1,200 students in grades 9 through 12 each school year and would be co-located on the UCR campus. As a result, this alternative would accomplish most of the basic Project Objectives outlined in Section 6.3, *Attainment of Project Objectives*. However, during the siting evaluation phase, RUSD identified several safety issues with this site associated with its proximity to a railroad track, a high-pressure gas line, and the UCR Environmental Health and Safety building, which routinely handles hazardous materials and wastes. These safety issues would pose significant challenges to obtaining site approval from the California Department of Education and would likely result in the imposition of additional safety design measures to address these concerns, assuming they could be addressed at all. Thus, because of the identified safety issues, this alternative is not feasible and is not consistent with the project objective of establishing a flagship STEM education facility at a safe and secure location. As a result, this alternative is not considered in further detail.
- **STEM Education Center at Iowa Avenue Site:** Under this potential alternative, the RUSD STEM Education Center would be constructed on UCR's agricultural fields located generally at the southeast corner of Iowa Avenue and Everton Place. Similar to the proposed project, the STEM Education Center under this alternative would be co-located on the UCR campus. However, due to space constraints, the STEM Education Center under this alternative would only serve approximately 750 students (400 to 500 full-time students and 250 to 350 part-time students) in grades 9 through 12 each school year. This alternative would accomplish several of the basic Project Objectives outlined in Section 6.3, *Attainment of Project Objectives*, including establishing a flagship STEM education facility co-located with a research and science-based institution with enhanced opportunities for hands-on interactive practicum opportunities on campus and improved student-to-student collaboration. However, siting the STEM Education Center at this location would not accomplish the objective of improving access to a state-of-the-art STEM education facility for approximately 1,200 RUSD students each school year due to space limitations that would restrict student enrollment to 750 students. In addition, development of a STEM Education Center at this location would present regulatory and health/safety challenges due to the active, ongoing use of adjacent properties for agricultural purposes. Regulation DPR-16-004, which was promulgated by the California Department of Pesticide Regulation and which went into effect January 1, 2018, requires agricultural growers to notify K-12 schools when certain pesticide applications made for the production of an agricultural commodity near a school site are planned in the coming year and also a few days prior to the applications. In addition, siting a school at this location would limit UCR's ability to apply certain pesticides as needed for research purposes because certain pesticide applications

near school sites are prohibited at certain times. As a result, during the siting evaluation phase, RUSD identified significant challenges associated with regulatory compliance by nearby agricultural growers should the STEM Education Center be sited at this location. Additionally, although this site would be proposed on the UCR campus, this site would be located on the UCR West Campus, which would not be compatible with land uses identified in the UCR Long Range Development Plan. Therefore, this alternative is not feasible and is not considered in further detail.

6.5 Alternatives Selected for Analysis

The following alternatives are evaluated in this EIR:

- Alternative 1: No Project
- Alternative 2: Modified Enrollment
- Alternative 3: Renovation/Expansion of Existing STEM Academy at Mt. Vernon Site

The potential environmental impacts of each alternative are analyzed in Sections 6.5.1 through 6.5.3.

6.5.1 Alternative 1: No Project

CEQA Guidelines Section 15126.6(e)(1) requires the “no project” alternative be described and analyzed “to allow decision makers to compare the impacts of approving the project with the impacts of not approving the project.” The no project analysis is required to discuss “the existing conditions at the time the notice of preparation is published...as well as what would be reasonably expected to occur in the foreseeable future if the project were not approved, based on current plans and consistent with available infrastructure and community services” (CEQA Guidelines Section 15126.6[e][2]). “If the project is...a development project on identifiable property, the no project alternative is the circumstance under which the project does not proceed. Here, the discussion would compare the environmental effects of the property remaining in its existing state against environmental effects which would occur if the project is approved. If disapproval of the project under consideration would result in predictable actions by others, such as the proposal of some other project, this ‘no project’ consequence should be discussed. In certain instances, the no project alternative means ‘no build’ wherein the existing environmental setting is maintained. However, where failure to proceed with the project will not result in preservation of existing environmental conditions, the analysis should identify the practical result of the project’s non-approval and not create and analyze a set of artificial assumptions that would be required to preserve the existing physical environment” (CEQA Guidelines Section 15126[e][3][B]).

Under the No Project Alternative, the proposed RUSD STEM Education Center would not be constructed. The current land uses on the project site, which consist of open recreational fields, the T-Mobile and Sprint Cell Towers¹, and surface parking, would remain in place. The T-Mobile Cell Tower would not be re-located, and the proposed utilities improvements in Blaine Street and Canyon Crest Drive would not be installed. The open recreational fields would continue to be utilized by UCR intramural and club sport teams; however, the existing joint-use agreement between the UC Regents and the City of Riverside for use of the open recreation field would still

¹ The existing Sprint/Crown Castle Cell Tower is planned to be decommissioned independently of the proposed project, and no replacement is proposed.

terminate on September 16, 2027. The No Project Alternative would not fulfill the majority of the Project Objectives because a flagship STEM education facility serving 1,200 students in grades 9 through 12 within RUSD co-located with a research and science-based institution would not be constructed. However, maintaining existing land uses on the project site would be consistent with the site's 2021 Long Range Development Plan (LRDP) land use designation of Canyon Crest Gateway, which seeks to develop this portion of East Campus with various mixed land uses that include recreation and athletics facilities (UCR 2021).

Minimal changes in environmental conditions would occur under this alternative because no development would occur, and site conditions would remain largely similar to existing conditions. This alternative would avoid the potentially significant but mitigable impacts in the areas of aesthetics, biological resources, cultural resources, paleontological resources, hazards and hazardous materials, noise, transportation, tribal cultural resources, and wildfire under this alternative, and none of the mitigation measures recommended for the proposed project would apply. Under this alternative, the existing joint-use agreement between the UC Regents and the City for use of the open recreation field would still terminate on September 16, 2027, which would result in the re-location of youth soccer camps, City softball league events, and general community member recreation to other City facilities in the local area such that increased usage and accelerated deterioration of these facilities would occur. This shift in City recreational usage would occur 1 to 2 years later than under the proposed project under which the joint-use agreement would be terminated by January 1, 2026. Overall, this alternative's impacts would be less than those of the proposed project, and this alternative would avoid the project's potentially significant but mitigable impacts.

6.5.2 Alternative 2: Modified Enrollment

Under Alternative 2, the proposed RUSD STEM Education Center would be constructed at the same project site. However, the school would accommodate approximately 390 full-time students and 820 part-time students (total enrollment of approximately 1,210 students) instead of the approximately 400 full-time students and 800 part-time students (total enrollment of approximately 1,200 students) that would be accommodated by the proposed project. Despite the modified number of part-time and full-time students, this alternative would accommodate the same number of full-time equivalent students (800) as the proposed project. The STEM Education Center would have a similar building square footage and height as the proposed project. In addition, similar to the proposed project, this alternative would also require re-location of the existing T-Mobile Cell Tower to the northeastern corner of the adjacent UCR Baseball Complex, installation of utilities improvements along Canyon Crest Drive and Blaine Street, and associated improvements area. The general construction and operational parameters of Alternative 2 would be similar to those of the proposed project. However, although the number of full-time equivalent students would remain the same, the decrease in full-time students and increase in part-time students would result in fewer students being individually dropped off by parents or driving to school and more students riding the bus as compared to the proposed project.

The following analysis provides a comparison of the environmental impacts of Alternative 2 in relation to the proposed project impacts.

a. Aesthetics

Alternative 2 would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site as the proposed project. The location, height, and massing of the STEM Education Center under Alternative 2 would be similar to that of the proposed project. Therefore, Alternative 2 would result in similar aesthetics impacts as those identified for the proposed project. Impacts to scenic vistas, scenic resources within a state scenic highway, and consistency with regulations governing scenic quality would be less than significant. As with the proposed project, Mitigation Measures MM AES-1 and MM AES-2 would be required for Alternative 2 to reduce impacts related to light and glare to a less-than-significant level.

b. Agricultural and Forestry Resources

Alternative 2 would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site as the proposed project. Therefore, Alternative 2 would result in similar agricultural and forestry resources impacts as those identified for the proposed project. Similar to the proposed project, no impacts related to agricultural and forestry resources under Alternative 2 would occur.

c. Air Quality

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site and would accommodate the same number of faculty/staff and full-time equivalent students. Therefore, as with the proposed project, this alternative would not conflict with or obstruct implementation of the South Coast Air Quality Management District's (SCAQMD) Air Quality Management Plan because it would not induce new population growth, would not cause the City to exceed official regional employment projections, would be consistent with the Southern California Association of Governments' (SCAG) land use policies, and would not generate criteria air pollutant emissions in exceedance of SCAQMD thresholds, as discussed further below. Construction of Alternative 2 would generate similar criteria air pollutant, toxic air contaminant (TAC), and odorous emissions as those of the proposed project (see Section 4.3, *Air Quality - Impacts AQ-2, AQ-3, and AQ-4*), which would therefore not exceed SCAQMD regional or localized significance thresholds. Alternative 2 would also result in lower operational air pollutant emissions as the proposed project due to reduced total vehicle miles traveled (VMT), as discussed further in Section 6.5.2(q), *Transportation*. Therefore, Alternative 2 would similarly not exceed SCAQMD construction and operational thresholds for criteria air pollutant emissions or result in the creation of a carbon monoxide hotspot. Furthermore, because Alternative 2 involves the same land uses as the proposed project, the potential for Alternative 2 to generate operational TAC or odorous emissions would be similar to that of the proposed project. Therefore, as with the proposed project, Alternative 2 would not result in a cumulatively considerable net increase of any criteria air pollutant, expose sensitive receptors to substantial pollutant concentrations, or result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. Overall, impacts to air quality under Alternative 2 would be incrementally reduced as compared to the proposed project and would be less than significant.

d. Biological Resources

Alternative 2 would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site as the proposed project. Therefore, Alternative 2 would result in similar biological resources impacts as those identified for the proposed project. As with the proposed project, Mitigation Measures MM BIO-1 through MM BIO-3 would be required for Alternative 2 to reduce impacts to special-status species to a less-than-significant level. Impacts to riparian habitat, sensitive natural communities, State or federally protected wetlands, wildlife movement, native wildlife nursery sites, local policies and ordinances protecting biological resources, and adopted habitat conservation plans would be less than significant.

e. Cultural Resources

Alternative 2 would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site as the proposed project. Therefore, Alternative 2 would result in similar cultural resources impacts as those identified for the proposed project. Impacts to historic resources and human remains would be less than significant. As with the proposed project, Mitigation Measure MM CUL-1 would be required for Alternative 2 to reduce impacts to archaeological resources to a less-than-significant level.

f. Energy

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site and would accommodate the same number of faculty/staff and full-time equivalent students. Because the same facilities would be constructed, energy usage during construction of Alternative 2 would be similar to that of the proposed project. Alternative 2 would also generally result in lower operational energy usage as the proposed project due to reduced total VMT, as discussed further in Section 6.5.2(q), *Transportation*, which would reduce total fuel consumption. As a result, as with the proposed project, Alternative 2 would not result in wasteful, unnecessary, or inefficient consumption of energy resources during operation. Because Alternative 2 involves the same land uses as the proposed project, Alternative 2 would be similarly consistent with State and local plans for renewable energy and energy efficiency, such as California Building Code Title 24, Senate Bill (SB) 100, and the UC Policy on Sustainable Practices. Overall, impacts to energy under Alternative 2 would be incrementally reduced as compared to the proposed project and would be less than significant.

g. Geology and Soils

Alternative 2 would be located on the same project site as the proposed project and would be subject to the same soils and geologic conditions. In addition, Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site. Therefore, Alternative 2 would result in similar impacts related to geology/soils as those identified for the proposed project. Impacts related to earthquake faults, strong seismic ground-shaking, liquefaction, landslides, soil erosion, unstable geologic units and soils, and expansive soils would be

less than significant. No impacts related to septic tanks and alternative wastewater disposal systems would occur. As with the proposed project, Mitigation Measure MM GEO-1 would be required for Alternative 2 to reduce impacts to paleontological resources to a less-than-significant level.

h. Greenhouse Gas Emissions

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site and would accommodate the same number of faculty/staff and full-time equivalent students. Because the same facilities would be constructed, greenhouse gas (GHG) emissions during construction of Alternative 2 would be similar to those of the proposed project. Alternative 2 would also result in lower operational GHG emissions as the proposed project due to reduced total VMT, as discussed further in Section 6.5.2(q), *Transportation*. Therefore, as with the proposed project, GHG emissions under Alternative 2 would not exceed the SCAQMD threshold of 3,000 metric tons (MT) of carbon dioxide equivalents (CO₂e). Because GHG emissions under Alternative 2 would not exceed thresholds recommended by SCAQMD, this alternative would be consistent with the California Air Resources Board's 2022 Scoping Plan. In addition, Alternative 2 would also be consistent with the UC Sustainability Policy and the UCR 2021 LRDP because it would involve the development of the same facilities on the same site as the proposed project. Furthermore, Alternative 2 would be consistent with the SCAG 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) because it would not result in a net increase in the regional average VMT per service population, as discussed in Section 6.5.2(p), *Transportation*. Therefore, as with the proposed project, impacts to GHG emissions under Alternative 2 would be incrementally reduced as compared to the proposed project and would be less than significant.

i. Hazards and Hazardous Materials

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site. In addition, as with the proposed project, MM WF-1 would be required for Alternative 2 to minimize impacts to emergency access. Therefore, Alternative 2 would result in similar impacts related to hazards and hazardous materials as those identified for the proposed project. Impacts related to the transport, use, and disposal of hazardous materials; hazardous emissions; hazardous materials sites; airport hazards; emergency response and evacuation plans; and wildfires would be less than significant.

j. Hydrology and Water Quality

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site. Therefore, Alternative 2 would result in similar impacts related to hydrology and water quality as those identified for the proposed project. Impacts related to water quality standards, waste discharge requirements, groundwater supplies, drainage patterns, pollutant release, water quality control plans, and sustainable groundwater management plans would be less than significant.

k. Land Use and Planning

Alternative 2 would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site as the proposed project. No impacts related to the physical division of an established community would occur. As noted in Section 6.5.2(c), *Air Quality*, Alternative 2 would be consistent with the SCAQMD Air Quality Management Plan. Alternative 2 would also be consistent with the UCR 2021 LRDP and the City's General Plan because it would involve the development of the same facilities on the same site as the proposed project and would be consistent with SCAG's 2020-2045 RTP/SCS because it would not result in a net increase in the regional average VMT per service population, as discussed further in Section 6.5.2(q), *Transportation*. Therefore, impacts to land use and planning under Alternative 2 would be less than significant, similar to the proposed project.

l. Mineral Resources

Alternative 2 would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site as the proposed project. Therefore, Alternative 2 would result in similar mineral resources impacts as those identified for the proposed project. Similar to the proposed project, no impacts related to mineral resources under Alternative 2 would occur.

m. Noise

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site. Therefore, Alternative 2 would result in similar noise and vibration impacts as those identified for the proposed project. As with the proposed project, Mitigation Measure MM N-1 would be required for Alternative 2 to reduce construction noise impacts to a less-than-significant level. Impacts related to on-site operational and off-site traffic noise; construction and operational vibration; and airport-related noise would be less than significant.

n. Population and Housing

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site and would accommodate the same number of faculty/staff and full-time equivalent students. Therefore, Alternative 2 would result in similar population/housing impacts as those identified for the proposed project. Impacts related to population/housing would be less than significant.

o. Public Services

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site and would accommodate the same number of faculty/staff and full-time equivalent students. Therefore, Alternative 2 would result in similar public services impacts as

those identified for the proposed project. Impacts to fire or police protection facilities, schools, parks, and libraries would be less than significant.

p. Recreation

Alternative 2 would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site as the proposed project. Therefore, Alternative 2 would result in similar recreational impacts as those identified for the proposed project. Impacts related to increased usage of existing neighborhood and regional parks and other recreation facilities, and the construction or expansion of recreational facilities would be less than significant.

q. Transportation

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site and would accommodate the same number of faculty/staff and full-time equivalent students. In addition, as discussed in Section 6.5.2(i), *Hazards and Hazardous Materials*, Mitigation Measure MM WF-1 would be required for Alternative 2 to minimize impacts to emergency access. Therefore, Alternative 2 would be similar in design to the proposed project and would not introduce geometric design features or incompatible uses that would result in a transportation hazard. In addition, as with the proposed project, Alternative 2 would not result in inadequate emergency access and would not conflict with a program, plan, ordinance, or policy addressing the circulation system.

Alternative 2 would result in a decrease in full-time students from 400 full-time students under the proposed project to 390 full-time students under Alternative 2 and an increase in part-time students from 800 part-time students under the proposed project to 820 part-time students under Alternative 2. The decrease in full-time students and increase in part-time students would result in fewer students being individually dropped off by parents or driving to school and more students riding the bus as compared to the proposed project. As a result, total VMT and VMT per service population would decrease as compared to the proposed project. VMT per service population under Alternative 2 would not exceed the threshold of 15 percent below the Western Riverside Council of Governments VMT per service population. In addition, Alternative 2 would not result in a net increase in the regional average VMT per service population (Reed 2023). Therefore, as with the proposed project, Alternative 2 would not conflict with CEQA Guidelines Section 15064.3(b) and impacts would be less than significant.

r. Tribal Cultural Resources

Alternative 2 would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site as the proposed project. Therefore, Alternative 2 would result in similar tribal cultural resources impacts as those identified for the proposed project. As with the proposed project, Mitigation Measures MM TCR-1 and MM TCR-2 would be required for Alternative 2 to reduce impacts to tribal cultural resources to a less-than-significant level.

s. Utilities and Service Systems

Alternative 2 would involve similar construction and operational activities as the proposed project because this alternative would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site and would accommodate the same number of faculty/staff and full-time equivalent students. Therefore, Alternative 2 would result in similar impacts to utilities and service systems as those identified for the proposed project. Impacts related to water, wastewater treatment, stormwater drainage, electric power, natural gas, and telecommunications facilities; water supplies; and solid waste would be less than significant.

t. Wildfire

Alternative 2 would involve construction of the same facilities (STEM Education Center, re-located T-Mobile Cell Tower, utilities improvement alignment, and associated improvements area) on the same project site as the proposed project. In addition, as discussed in Section 6.5.2(i), *Hazards and Hazardous Materials*, Mitigation Measure MM WF-1 would be required for Alternative 2 to minimize disruption to emergency vehicles and emergency response during construction. Therefore, Alternative 2 would result in similar wildfire impacts as those identified for the proposed project. Impacts related to emergency response and evacuation plans, wildfire risks, installation or maintenance of associated infrastructure that may exacerbate wildfire risk or result in temporary or ongoing impacts to the environment, and the exposure of people and structures to post-wildfire risks would be less than significant.

6.5.3 Alternative 3: Renovation/Expansion of Existing STEM Academy at Mt. Vernon Site

Under Alternative 3, the proposed RUSD STEM Education Center would not be constructed at the project site. Instead, the enrollment capacity of the existing STEM Academy located at 4466 Mt. Vernon Avenue in Riverside (Mt. Vernon site) would be expanded, either by building a new campus at this location or by modernizing the current campus with new buildings. Under this alternative, enrollment at the existing STEM Academy would be increased by approximately 200 students in grades 9 through 12 to a total capacity of 800 students in grades 5 through 12. The degree to which the existing campus could be expanded would be limited by the size of the site and challenging topographical constraints that would require significant grading to facilitate development. The current uses on the project site (open recreational fields, T-Mobile Cell Tower, and surface parking) would remain in place and would continue to be utilized in the same manner as under existing conditions. The open recreational fields would continue to be utilized by UCR intramural and club sport teams; however, the existing joint-use agreement between the UC Regents and the City for use of the open recreation field would still terminate on September 16, 2027.

The following analysis provides a comparison of the environmental impacts of Alternative 3 in relation to the proposed project impacts.

a. Aesthetics

Scenic vistas in the vicinity of the Alternative 3 site consist of views of the Box Spring Mountains, which are located directly north and east of the site of Alternative 3. These views are visible from the site of Alternative 3. The proposed project would be constructed at the existing STEM Academy where either a new campus would be built, or buildings would be modernized. The new or

renovated campus buildings under Alternative 3 would be similar in height and size to the current buildings on the Mt. Vernon site. The new or renovated buildings would therefore not substantially obstruct views of the Box Spring Mountains as compared to existing conditions. Therefore, Alternative 3 would not result in a substantial adverse effect on a scenic vista, and impacts would be less than significant.

Similar to the proposed project, Alternative 3 is not located in proximity to a State Scenic Highway identified by the California Department of Transportation (2019). Therefore, Alternative 3 would not substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway, and no impact would occur, similar to the proposed project.

The Mt. Vernon site is located in an urbanized area and is zoned R-1-8500. RUSD has no adopted regulations regarding scenic quality. Pursuant to Riverside Municipal Code Section 19.100.040, R-1-8500 zoning permits two-story buildings with a maximum height of 35 feet. Development under this alternative is anticipated to be consistent with this height requirement as well as the minimum front and rear setbacks of 25 feet and the minimum side setbacks of 7.5 and 12.5 feet in compliance with Riverside Municipal Code Section 19.100.040. In addition, landscaping would be provided and continuously maintained in accordance with standard RUSD operations and would be required to comply with the landscaping and lighting standards outlined Riverside Municipal Code Section 19.140.030. This alternative also would not adversely impact the contribution of open space areas and linkages to the City's visual character or affect buffers between urban and rural uses and would integrate new development through visual connections, consistent with Objectives OS-1 and OS-4 and Policy OS-1.6 of the City's General Plan Open Space and Conservation Element (City of Riverside 2012). This alternative also would not conflict with Policies OS-2.2, OS-2.3, and OS-2.4 of the City's General Plan Open Space and Conservation Element and Objective LU-3 of the City's General Plan Land Use and Urban Design Element, which require preservation of ridgelines and hillsides as significant visual resources and visual assets and prohibits excessive modification of natural landforms (City of Riverside 2012 and 2019). Therefore, Alternative 3 would not conflict with zoning and other regulations governing scenic quality, and impacts would be less than significant.

Alternative 3 would potentially introduce new light and glare sources to the site through the addition of new buildings and increased vehicular traffic to the Mt. Vernon site due to increased enrollment. However, the existing STEM Academy already contains light sources such as buildings, parking lot lights, and vehicle headlights and taillights. In addition, as with the proposed project, implementation of Mitigation Measures MM AES-1 and MM AES-2 would be required for Alternative 3 to minimize the generation of light and glare. Therefore, Alternative 3 would result in significant but mitigable impacts to aesthetics, similar to the proposed project.

b. Agricultural and Forestry Resources

There are no existing agricultural, Farmland, or forestry uses on or in the vicinity of the Mt. Vernon site, which is zoned Single-family Residential (R-1-8500; City of Riverside 2007a). The R-1-8500 designation is intended for development of single-family residences with lot sizes greater than 8,500 square feet and less than 10,500 square feet in area (Riverside Municipal Code Sections 19.100.010[E] and 19.100.060[C][9]). According to the California Department of Conservation (DOC), the Mt. Vernon site is classified as Urban and Built-Up Land and thus does not contain any mapped Farmland (DOC 2022a). In addition, the Mt. Vernon site is not under a Williamson Act contract (DOC 2017). Therefore, similar to the proposed project, implementation of Alternative 3 would result in no impacts to agricultural and forestry resources.

c. Air Quality

Similar to the proposed project, Alternative 3 would not induce new population growth, would have low potential to cause the City to exceed official regional employment projections, would be consistent with SCAG land use policies, and would not generate criteria air pollutant emissions in exceedance of SCAQMD thresholds, as discussed further below. Therefore, Alternative 3 would not conflict with or obstruct implementation of the SCAQMD's Air Quality Management Plan.

Construction associated with Alternative 3 would likely be more intensive than those of the proposed project due to the potentially substantial grading activities that would be required to facilitate development on the Mt. Vernon site due to topographical constraints. Depending on the amount of grading and associated particulate matter emissions, construction activities under Alternative 3 may exceed the SCAQMD thresholds for particulate matter. (Other pollutants generated during construction activities are unlikely to exceed SCAQMD thresholds of significance.) Further analysis, such as a quantitative air quality analysis, would be required to determine whether SCAQMD thresholds would be exceeded, and implementation of mitigation measures, such as enhanced dust control measures, may be needed to address potentially significant impacts related to criteria air pollutant emissions. These mitigation measures would be expected to reduce the construction-related air quality impacts of Alternative 3 to less-than-significant levels.

Operational activities under Alternative 3 would likely be less intensive than those of the proposed project given that the new or expanded campus at the Mt. Vernon site would accommodate fewer students than the proposed project. Although VMT per service population would be higher under this alternative as compared to the proposed project (see Section 6.5.3[q], *Transportation*), this alternative would result in a lower overall enrollment capacity such that total VMT and associated air pollutant emissions would be similar to or less than those of the proposed project. As a result, criteria air pollutant and TAC emissions during operation of Alternative 3 would be similar to or less than those of the proposed project and thus would not exceed SCAQMD regional or localized significance thresholds or create carbon monoxide hotspots. Furthermore, because Alternative 3 involves the same land uses as the proposed project in similarly close proximity to sensitive receptors, the potential for Alternative 3 to generate operational TAC or odorous emissions would be similar to that of the proposed project. In light of the above discussion, due to the potential of construction activities to generate criteria air pollutant emissions in excess of SCAQMD thresholds, Alternative 3 would result in a potentially significant but mitigable impacts to air quality, which would be greater than those of the proposed project.

d. Biological Resources

Alternative 3 would be located at the Mt. Vernon site rather than at the project site and would thus be subject to different biological conditions. The Mt. Vernon site currently contains a developed school with trees that may provide habitat for special-status bird and bat species as well as nesting birds. Therefore, Alternative 3 would also be subject to Mitigation Measures MM BIO-1 through MM BIO-3 to reduce impacts to nesting birds. Under Alternative 3, the existing STEM Academy footprint at the Mt. Vernon site may be expanded. If the existing campus footprint is expanded along the southern portion of the property under Alternative 3, it may encroach on sensitive natural communities, special status species, and their habitat. Further analysis, such as a Biological Resources Assessment, would be required to determine the presence or absence of special status plant and wildlife species if this expansion occurs, and additional mitigation measures, such as focused and pre-construction surveys for special-status species, jurisdictional waters and wetlands delineation, and implementation of avoidance and minimization measures or compensatory

mitigation for any impacted special-status species or waters/wetlands, may be needed to address potentially significant impacts to regulated biological resources within this area. These mitigation measures would be expected to reduce the biological resources impacts of Alternative 3 to less-than-significant levels. Therefore, Alternative 3 would result in potentially significant but mitigable impacts to biological resources, which would likely be greater than those of the proposed project.

e. Cultural Resources

The existing STEM Academy at the Mt. Vernon site includes buildings that are of historic age (i.e., 45 years of age or older). If these buildings are determined to be historical resources, the demolition and/or renovation activities proposed under Alternative 3 may result in a substantial adverse change in the significance of a historical resource. Therefore, further analysis, such as a historic resources evaluation, would be required to determine the potential historical significance of the existing STEM Academy, and additional mitigation measures such as compliance with the Secretary of the Interior's Standards for the Treatment of Historic Properties or documentation of the historical resource in the form of a Historic American Building Survey (HABS) or HABS-like report, may be needed to address potentially significant impacts to historical resources. Depending on the effectiveness and feasibility of the identified mitigation measures, impacts to historical resources under Alternative 3 may be significant and unavoidable, which would be greater than the less-than-significant historical resources impacts identified for the proposed project.

Ground-disturbing activities associated with construction of Alternative 3 have the potential to damage or destroy known or unknown archaeological and cultural resources that may be present on or below the ground surface. Therefore, further analysis, such as a Phase 1 Cultural Resources Assessment, would be required to determine the potential for Alternative 3 to impact archaeological resources, and additional mitigation measures such as a Worker Environmental Awareness Program (WEAP) and archaeological/Native American monitoring may be needed to address potentially significant impacts to known archaeological resources, if identified within this area. In addition, similar to the proposed project, Mitigation Measure MM CUL-1 would be required to reduce potential impacts to unknown archaeological resources to a less-than-significant level. Depending on the effectiveness and feasibility of the identified mitigation measures, impacts to archaeological resources under Alternative 3 may be significant and unavoidable, which would be greater than the less-than-significant archaeological resources impacts identified for the proposed project. Overall, impacts to cultural resources under Alternative 3 have the potential to be significant and greater than the proposed project.

f. Energy

Construction and operational activities associated with Alternative 3 would likely be less intensive than those of the proposed project given that the new or expanded campus at the Mt. Vernon site would accommodate fewer students than the proposed project. Although VMT per service population would be higher under this alternative as compared to the proposed project (see Section 6.5.3[q], *Transportation*), this alternative would result in a lower overall enrollment capacity such that total VMT and associated energy consumption by vehicle trips would be similar to or less than those of the proposed project. As a result, energy consumption during construction and operation of this alternative would be similar to or less than that of the proposed project. As with the proposed project, energy usage under Alternative 3 would not be wasteful, inefficient, or unnecessary. Because Alternative 3 involves the same land uses as the proposed project, Alternative 3 would be similarly consistent with State and local plans for renewable energy and

energy efficiency, such as California Building Code Title 24 and SB 100. As compared to the proposed project, Alternative 3 would not be required to comply with the UC Policy on Sustainable Practices because it would not be located on UC property. Therefore, as with the proposed project, Alternative 3 would result in less-than-significant impacts related to energy resources.

g. Geology and Soils

Alternative 3 would be located at the Mt. Vernon site rather than at the project site and would thus be subject to different geologic and soils conditions. The Mt. Vernon site is not located in an Alquist-Priolo Earthquake Fault Zone, liquefaction zone, or in an area susceptible to landslides (DOC 2022a; DOC 2022b; DOC 2022c; City of Riverside 2007b). In addition, the nature of construction and operational activities under Alternative 3 would be similar to those of the proposed project and would not create unstable seismic conditions or stresses in the Earth's crust. Furthermore, Alternative 3 would also be required to comply with the California Building Code (CBC) standards for structural design and site development and Title 5 of the California Code of Regulations and would be subject to the California Geological Survey (CGS) review in compliance with Interpretation of Regulations A-4. Therefore, as with the proposed project, Alternative 3 would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, strong seismic ground shaking, liquefaction, or landslides. Alternative 3 also would not be located on a geologic unit that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. Similar to the proposed project, impacts would be less than significant.

The nature of construction and operational activities under Alternative 3 would be generally similar to those of the proposed project. However, Alternative 3 would have increased potential to result in erosion due to the potentially substantial grading activities that would be required to facilitate development on the Mt. Vernon site due to topographical constraints. Nevertheless, as with the proposed project, construction and operational activities for Alternative 3 would be subject to the National Pollutant Discharge Elimination System (NPDES) Construction General Permit, which requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP would include project-specific best management practices (BMPs) to control erosion, sediment release, and otherwise reduce the potential for discharge of pollutants from construction into stormwater. Typical BMPs include, but are not limited to, installation of silt fences, erosion control blankets, and anti-tracking pads at site exits to prevent off-site transport of soil materials. Adherence to these regulations would minimize the potential for substantial soil erosion or the loss of topsoil to occur during construction. In addition, operation of Alternative 3 would not involve activities that would cause substantial soil erosion or the loss of topsoil to occur. Therefore, although the potential for soil erosion would be greater, impacts related to soil erosion or the loss of topsoil under Alternative 3 would remain less than significant, as with the proposed project.

Similar to the proposed project, Alternative 3 would receive wastewater services from City of Riverside Public Works Department Sewage Systems Division and would not require the use of septic tanks or alternative wastewater disposal systems, and no impact would occur.

The Mt. Vernon site is underlain by the same high-sensitivity sediments as the proposed project site (Morton and Miller 2006). Due to the presence of sediments with high paleontological sensitivity, Alternative 3 would result in generally similar paleontological resources impacts as those identified for the proposed project. However, impacts may be greater under Alternative 3 due to the greater volume of undisturbed sediments that would likely be disturbed during grading activities due to

topographical constraints. As with the proposed project, Mitigation Measure MM GEO-1 would be required for Alternative 3 to reduce impacts to paleontological resources to a less-than-significant level.

h. Greenhouse Gas Emissions

Construction and operational activities associated with Alternative 3 would likely be less intensive than those of the proposed project given that the new or expanded campus at the Mt. Vernon site would accommodate fewer students than the proposed project. Although VMT per service population would be higher under this alternative as compared to the proposed project (see Section 6.5.3[q], *Transportation*), this alternative would result in a lower overall enrollment capacity such that total VMT and associated mobile source criteria air pollutant emissions would be similar to or less than those of the proposed project. As a result, GHG emissions during construction and operation of Alternative 3 would be similar to or less than those of the proposed project and thus would not exceed the SCAQMD threshold of 3,000 MT of CO₂e. Because GHG emissions under Alternative 3 would not exceed thresholds recommended by SCAQMD, this alternative would be consistent with the California Air Resources Board's 2022 Scoping Plan. Alternative 3 would not be subject to UC Sustainability Policy or the UCR 2021 LRDP because it would not be located on UC property. Alternative 3 would be inconsistent with the SCAG 2020-2045 RTP/SCS because it would result in a net increase in the regional average VMT per service population and thus cause total VMT for the Western Riverside Council of Governments region to exceed the future forecast VMT from the 2020-2045 RTP/SCS, as discussed in Section 6.5.3(q), *Transportation*. Therefore, Alternative 3 would require additional mitigation measures, such as reduced parking, transportation demand management, and increased bussing, to reduce VMT generation. Depending on the effectiveness and feasibility of these mitigation measures, impacts related to GHG emissions under Alternative 3 may be significant and unavoidable, which would be greater than the less-than-significant impacts identified for the proposed project.

i. Hazards and Hazardous Materials

The nature of construction and operational activities under Alternative 3 would be generally similar to those of the proposed project. Therefore, with regulatory compliance, construction and operation of Alternative 3 would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. In addition, any use of hazardous materials at the project site during operation would be conducted in accordance with the RUSD Code of Safe Workplace Practices, such that operation of Alternative 3 would not adversely affect schools within 0.25 mile of the project site due to the handling of hazardous materials, substances, or waste. Thus, similar to the proposed project, impacts would be less than significant.

There are no hazardous waste disposal sites, solid waste disposal sites, or hazardous substance release sites identified within or in the vicinity of the Mt. Vernon site. Flabob Airport and March Air Reserve Base are approximately 5.3 miles west and southeast, respectively, from the Mt. Vernon site. Therefore, as with the proposed project, impacts related to hazardous materials sites and airport hazards would be less than significant under Alternative 3.

As discussed further in Section 6.5.3(t), *Wildfire*, Alternative 3 would result in increased enrollment at the Mt. Vernon site, which has a single access point and is located in a residential neighborhood in a Very High Fire Hazard Severity Zone (VHFHSZ) and adjacent to a State Responsibility Area (SRA) (California Department of Forestry and Fire Protection [CAL FIRE] 2023). In the event of an emergency such as a wildfire, evacuation of these additional students may cause additional

congestion as compared to existing conditions and interfere with the surrounding neighborhood's ability to evacuate and/or the ability of emergency responders to access the local area. In addition, as with the proposed project, Mitigation Measure MM WF-1 would be required for Alternative 3 to minimize disruption to emergency vehicles and emergency response during construction. Further analysis, such as a traffic impact assessment, would be required to determine whether the increased congestion during an evacuation event would substantially impair implementation of or physically interfere with an adopted emergency response or evacuation plan, and additional mitigation measures, such as emergency evacuation procedures, designated buses on-site, or designated bus evacuation routes, may be needed to address potentially significant impacts to emergency response and evacuation plans. These mitigation measures would be expected to reduce the impacts of Alternative 3 related to emergency response and emergency evacuation to less-than-significant levels. Therefore, Alternative 3 would result in potentially significant but mitigable impacts to emergency response and evacuation plans, which would be greater than the impacts of the proposed project.

As noted above, the Mt. Vernon site is located in a VHFHSZ and is thus at risk of exposure to wildland fires. As with the proposed project, compliance with applicable federal and State laws and regulations related to the proper use, storage, and transport of hazardous materials would reduce the risk of wildfire ignition from the use of hazardous materials during construction activities. In addition, Alternative 3 would be subject to compliance with applicable regulations governing the construction and renovation of structures in a VHFHSZ, including the California Fire Code, the Wildland-Urban Interface Building Standards in the California Building Code, fire and life safety review by the California Division of the State Architect, and CAL FIRE's defensible space requirements. With adherence to these regulatory requirements, Alternative 3 would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires. Impacts related to wildland fires under Alternative 3 would be incrementally greater than those of the proposed project but would remain less than significant.

j. Hydrology and Water Quality

The nature of construction and operational activities under Alternative 3 would be generally similar to those of the proposed project. However, Alternative 3 would have increased potential to result in erosion due to the potentially substantial grading activities that would be required to facilitate development on the Mt. Vernon site due to topographical constraints. Nevertheless, as with the proposed project, Alternative 3 would be subject to the provisions of the NPDES Construction General Permit, which requires the implementation of best management practices through a project specific SWPPP. In addition, operation of Alternative 3 would occur in compliance with a project-specific Water Quality Management Plan prepared in compliance with City standards, which would include Low Impact Development design features. Therefore, although the potential for erosion would be greater than the proposed project, Alternative 3 would not violate any water quality standards or waste discharge requirements, otherwise substantially degrade surface or groundwater quality, or conflict with or obstruct implementation of the Santa Ana Regional Water Quality Control Board Water Quality Control Plan. Impacts under Alternative 3 would be greater than those of the proposed project but would remain less than significant.

The Mt. Vernon site is underlain by the Upper Santa Ana Valley Groundwater Basin, Riverside-Arlington Subbasin (California Department of Water Resources 2023). As with the proposed project, Alternative 3 would not directly extract groundwater supplies because water demand would be supplied by Riverside Public Utilities, which would be subject to compliance with the Adjudication

Judgement for the Riverside-Arlington subbasin. The addition of impervious surfaces to the existing STEM Academy's developed footprint that may be required under this alternative would be minimal. In addition, as mentioned above, Alternative 3 would include implementation of Low Impact Development design features, which would retain stormwater on-site for infiltration. Therefore, as with the proposed project, Alternative 3 would not impede sustainable groundwater management of the basin or conflict with or obstruct a sustainable groundwater management plan. Impacts would be less than significant.

The Mt. Vernon site is currently developed with the existing STEM Academy. However, Alternative 3 may result in an increase in existing impervious surfaces if the current developed campus footprint is expanded. In addition, Alternative 3 would have the potential to result in alterations to existing drainage patterns due to the potentially substantial grading activities that would be required to facilitate development on the Mt. Vernon site due to topographical constraints. However, as with the proposed project, on-site stormwater improvements would be implemented for Alternative 3 in compliance with the project-specific Water Quality Management Plan and other regulatory requirements. Any additional stormwater runoff from the site would be routed to existing stormwater drainage facilities and would be minimal given the existing development nature of the Mt. Vernon site. Therefore, Alternative 3 would not substantially alter the existing drainage pattern of the site such that substantial erosion or siltation, flooding, excess stormwater runoff, or impeded/redirectioned flood flows would occur, and impacts would be less than significant, similar to the proposed project.

Lake Mathew and the Perris Reservoir are the two closest bodies of water that would be subject to seiche. Lake Mathew is approximately 11 miles southwest of the Mt. Vernon site and the Perris Reservoir is approximately ten miles southeast of the Mt. Vernon site. Given the intervening topography and distance, the Mt. Vernon site would not be subject to seiche from these two waterbodies. The Mt. Vernon site is not located in a flood hazard or tsunami zone (Federal Emergency Management Agency 2020; DOC 2023). Thus, Alternative 3 would not risk release of pollutants due to project inundation. Overall impacts to hydrology and water quality under Alternative 3 would be less than significant, similar to the proposed project.

k. Land Use and Planning

Alternative 3 would be located at the Mt. Vernon site, which currently contains the existing STEM Academy. Construction of the Alternative 3 would occur within this previously developed site and would maintain existing sidewalks and public roadways adjacent to the site in their current configurations. Therefore, as with the proposed project, Alternative 3 would not physically divide an established community, and no impact would occur.

The Mt. Vernon site is zoned as R-1-8500, and Alternative 3 would maintain the site's current land use as a school. The California Department of Education considers R-1 zoning to be acceptable for school uses. RUSD would be required to obtain a letter of conformance for the zone from the City's Planning Commission and final approval from City Council as part of the California Department of Education's site certification process for this alternative. With City Council approval of the letter of conformance, Alternative 3 would be consistent with the requirements of the Riverside Municipal Code. As noted in Section 6.5.3(c), *Air Quality*, Alternative 3 would also be consistent with the SCAQMD Air Quality Management Plan. This alternative would not be subject to compliance with the UCR 2021 LRDP because it would not be located on UC property. However, as discussed in Section 6.5.3(h), *Greenhouse Gas Emissions*, Alternative 3 would not be consistent with SCAG's 2020-2045 RTP/SCS because it would result in a net increase in the regional average VMT per

service population and thus cause total VMT for the Western Riverside Council of Governments region to exceed the future forecast VMT from the 2020-2045 RTP/SCS. Mitigation measures would be required to address this impact, and depending on the effectiveness and feasibility of these mitigation measures, impacts related to land use and planning under Alternative 3 may be significant and unavoidable, which would be greater than the less-than-significant impacts identified for the proposed project.

I. Mineral Resources

The Mt. Vernon site is located on lands classified as MRZ-3, which are areas of undetermined mineral resource significance (City of Riverside 2012). No known mineral resources of local or State importance are present on the Mt. Vernon site, and no mineral extraction activities are currently occurring in or around the site vicinity. Alternative 3 does not entail mineral resource extraction activities or mining uses. Therefore, Alternative 3 would not result in the loss of availability of a known mineral resource and would not result in the loss of availability of a locally important mineral resource recovery site. Therefore, similar to the proposed project, no impacts related to mineral resources would occur under Alternative 3.

m. Noise

The nature of construction and operational activities under Alternative 3 would be generally similar to those of the proposed project. Off-site noise-sensitive receivers (e.g., residences) are located in similar proximity to the Mt. Vernon site as the proposed project, but construction activities under Alternative 3 would also have the potential to affect on-site noise-sensitive receivers (e.g., school classrooms). As a result, noise levels generated by construction and operational activities at the nearest off-site sensitive receivers under Alternative 3 would be similar to those estimated for the proposed project. However, construction noise levels would be higher at on-site noise-sensitive receivers due to their closer proximity and may thus require additional mitigation. Therefore, Alternative 3 would result in greater construction noise impacts than those identified for the proposed project. The noise reduction measures included in Mitigation Measure MM N-1 as well as additional measures to address potential construction noise impacts to the on-site school (e.g., additional noise barriers) would be required for Alternative 3. These mitigation measures would be expected to reduce the construction noise impacts of Alternative 3 to less-than-significant levels. Therefore, Alternative 3 would result in potentially significant but mitigable impacts related to construction noise, which would likely be greater than those of the proposed project.

As with the proposed project, impacts related to on-site operational and off-site traffic noise would be less than significant. In addition, Alternative 3 would not involve activities generating operational vibration, and as with the proposed project, no operational vibration impacts would occur.

The existing STEM Academy at the Mt. Vernon site includes buildings that are of historic age (i.e., 45 years of age or older). If these buildings are determined to be historic resources under CEQA (see Section 6.5.3[e], *Cultural Resources*), vibration generated by construction activities in proximity to these buildings could result in structural damage. Therefore, if these buildings are determined to be historic resources under CEQA, further analysis, such as a vibration study, would be required to determine if adverse impacts would occur and whether mitigation measures, such as restrictions on the type of construction equipment and buffer distances from historic buildings, would be necessary to address potentially significant impacts. These mitigation measures would be expected to reduce the construction vibration impacts of Alternative 3 to a less-than-significant level. Therefore,

Alternative 3 would result in potentially significant but mitigable impacts related to vibration, which would be greater than those of the proposed project.

Flabob Airport and March Air Reserve Base are approximately 5.3 miles west and southeast, respectively, from the Mt. Vernon site. Therefore, similar to the proposed project, impacts related to airport noise under Alternative 3 would be less than significant.

n. Population and Housing

The nature of construction and operational activities under Alternative 3 would be generally similar to those of the proposed project, but Alternative 3 would accommodate fewer faculty/staff and full-time equivalent students than the proposed project. As with the proposed project, Alternative 3 would serve RUSD's existing service population and would not result in the demolition of housing as no housing exists on the Mt. Vernon site. Therefore, similar to the proposed project, impacts related to population/housing would be less than significant.

o. Public Services

The nature of construction and operational activities under Alternative 3 would be generally similar to those of the proposed project, but Alternative 3 would accommodate fewer faculty/staff and full-time equivalent students than the proposed project. As with the proposed project, Alternative 3 would serve RUSD's existing service population and would not induce population growth (see Section 6.5.3[n], *Population and Housing*). Therefore, similar to the proposed project, impacts to fire and police protection facilities, schools, and libraries would be less than significant. In addition, Alternative 3 would not require the removal of recreational fields or facilities as would occur under the proposed project and would thus result in lesser impacts to parks compared to the proposed project. As with the proposed project, impacts to parks would be less than significant under Alternative 3.

p. Recreation

The nature of construction and operational activities under Alternative 3 would be generally similar to those of the proposed project, but Alternative 3 would accommodate fewer faculty/staff and full-time equivalent students than the proposed project. As with the proposed project, Alternative 3 would not include the construction or expansion of recreational facilities. In addition, Alternative 3 would not require the removal of recreational fields or facilities as would occur under the proposed project and would thus result in lesser impacts to recreational facilities compared to the proposed project. As with the proposed project, impacts to recreation would be less than significant under Alternative 3.

q. Transportation

Design of Alternative 3 is unknown at this time. Alternative 3 may introduce geometric design features or incompatible uses that may result in a hazard. Alternative 3 would utilize the existing ingress and egress point as the existing STEM Academy. Although Alternative 3 would increase local traffic volumes during school drop-off and pick-up hours due to increased enrollment, it is unlikely the increase in traffic would result in inadequate emergency access or conflict with a program, plan, ordinance, or policy addressing the circulation system. However, increasing usage of the site's single point of entry and exit may substantially increase traffic hazards in the immediate area due to increased congestion. As discussed in Section 6.5.3(i), *Hazards and Hazardous Materials*, Mitigation Measure MM WF-1 would be required for Alternative 3 to minimize disruption to emergency

vehicles and emergency response during construction. Additional mitigation measures, such as a traffic control plan, may be required for Alternative 3. These mitigation measures would be expected to reduce impacts related to traffic hazards under Alternative 3 to a less-than-significant level. Therefore, Alternative 3 would result in potentially significant but mitigable impacts related to traffic hazards, which would be greater than those of the proposed project.

Alternative 3 would have a decrease in VMT and a bigger decrease in service population due to the removal of bussing as a result of less part time students. Due to the larger decrease in service population, VMT for Alternative 3 would increase compared to the proposed project. Alternative 3 would not exceed the threshold of 15 percent below the Western Riverside Council of Governments VMT per service population. However, it would result in an impact to the regional average VMT and would increase the regional average over the threshold and therefore would result in a significant impact. Alternative 3 would conflict with CEQA Guidelines Section 15064.3(b), and impacts would be significant and greater than the proposed project.

As compared to the proposed project, Alternative 3 would result in a lower enrollment capacity of approximately 800 full-time students instead of 400 full-time students and 800 part-time students under the proposed project. The decrease in enrollment capacity would result in a decrease in total VMT as well as a decrease in total service population. Because the total service population would decrease proportionally greater than total VMT, per capita VMT under Alternative 3 would be higher than that of the proposed project. Nevertheless, VMT per service population under Alternative 3 would not exceed the threshold of 15 percent below the Western Riverside Council of Governments VMT per service population. However, Alternative 3 would result in a net increase in the regional average VMT per service population, which would constitute a significant impact (Reed 2023). Therefore, Alternative 3 would potentially conflict with CEQA Guidelines Section 15064.3(b) and would require additional mitigation measures, such as reduced parking, transportation demand management, and increased bussing, to reduce VMT generation. Depending on the effectiveness and feasibility of these mitigation measures, impacts related to VMT under Alternative 3 may be significant and unavoidable, which would be greater than the less-than-significant VMT impacts identified for the proposed project.

r. Tribal Cultural Resources

At this time, the presence of tribal cultural resources at the Mt. Vernon site is not known because Assembly Bill 52 consultation has not been conducted for this site. If tribal cultural resources are present within or near the site, construction of Alternative 3 would have the potential to result in a substantial adverse change in the significance of a tribal cultural resource. Therefore, further evaluation, such as Assembly Bill 52 consultation, would be required to determine the potential for Alternative 3 to impact tribal cultural resources, and mitigation measures, such as Mitigation Measures MM TCR-1 and MM TCR-2 required for the proposed project or others, may be needed to address potentially significant impacts to tribal cultural resources, if identified within this area. Depending on the effectiveness and feasibility of the identified mitigation measures, impacts to tribal cultural resources under Alternative 3 may be significant and unavoidable, which would be greater than the less-than-significant impacts with mitigation incorporated identified for the proposed project. Overall, impacts to tribal cultural resources under Alternative 3 have the potential to be significant and greater than the proposed project.

s. Utilities and Service Systems

Alternative 3 would be located at the Mt. Vernon site, which currently contains the existing STEM Academy. Existing on-site facilities there would be expanded, either by building a new campus or by modernizing the current campus with new buildings. This alternative would likely require replacement and expansion of on-site utilities to accommodate the increased student enrollment capacity. However, because the enrollment for Alternative 3 would be less than that of the proposed project, impacts to water supplies, wastewater treatment capacity, and solid waste would be reduced as compared to those of the proposed project. Therefore, as with the proposed project, impacts to utilities and service systems would be less than significant under Alternative 3.

t. Wildfire

The Mt. Vernon site is located within a VHFHSZ and is immediately adjacent to a State Responsibility Area (SRA) to the east (CAL FIRE 2023). As discussed in Section 6.5.3(i), *Hazards and Hazardous Materials*, due to increased enrollment at the existing STEM Academy under Alternative 3, this alternative may substantially impair an adopted emergency response plan or emergency evacuation plan. As discussed in Section 6.5.3(i), *Hazards and Hazardous Materials*, Mitigation Measure MM WF-1 would be required for Alternative 3 to minimize disruption to emergency vehicles and emergency response during construction. In the event of an emergency such as a wildfire, evacuation of these additional students may cause additional congestion as compared to existing conditions and interfere with the surrounding neighborhood's ability to evacuate and/or the ability of emergency responders to access the local area. Further analysis, such as a traffic impact assessment, would be required to determine whether the increased congestion during an evacuation event would substantially impair implementation of or physically interfere with an adopted emergency response or evacuation plan, and additional mitigation measures, such as emergency evacuation procedures, designated buses on-site, or designated bus evacuation routes, may be needed to address potentially significant impacts to emergency response and evacuation plans. These mitigation measures would be expected to reduce the impacts of Alternative 3 related to emergency response and emergency evacuation to less-than-significant levels. Therefore, Alternative 3 would result in potentially significant but mitigable impacts to emergency response and evacuation plans, which would be greater than the impacts of the proposed project.

As with the proposed project, compliance with applicable federal and State laws and regulations related to the proper use, storage, and transport of hazardous materials would reduce the risk of wildfire ignition from the use of hazardous materials during construction activities. In addition, Alternative 3 would be subject to compliance with applicable regulations governing the construction and renovation of structures in a VHFHSZ, including the California Fire Code, the Wildland-Urban Interface Building Standards in the California Building Code, fire and life safety review by the California Division of the State Architect, and CAL FIRE's defensible space requirements. With adherence to these regulatory requirements, Alternative 3 would not exacerbate wildfire risks.

Alternative 3 may require the clearance of greater defensible space around the existing Mt. Vernon site depending on whether the campus footprint is expanded into undeveloped areas. If larger defensible space areas are required in currently undeveloped areas, Alternative 3 may result in additional significant but mitigable impacts to biological resources, as noted in Section 6.5.3(d), *Biological Resources*.

As discussed in Section 6.5.3(i), *Hazards and Hazardous Materials*, Alternative 3 would be subject to compliance with applicable regulations governing the construction and renovation of structures in a VHFHSZ, including the California Fire Code, the Wildland-Urban Interface Building Standards in the California Building Code, fire and life safety review by the California Division of the State Architect, and CAL FIRE’s defensible space requirements. With adherence to these regulatory requirements, Alternative 3 would not expose people or structures to significant risks as a result of runoff, post-fire slope instability, or drainage changes. Overall, impacts related to wildfire under Alternative 3 have the potential to be significant but mitigable, which would be greater than the impacts of the proposed project.

6.6 Comparison of Alternatives

Table 6-1 indicates whether each alternative’s environmental impact is greater than, less than, or similar to that of the proposed project for each of the issue areas studied.

Table 6-1 Impact Comparison of Alternatives

Issue	Proposed Project Impact Classification	Alternative 1: No Project	Alternative 2: Modified Enrollment	Alternative 3: Mt. Vernon Site
Aesthetics	Less than Significant with Mitigation	<	=	=
Agriculture and Forestry Resources	No Impact	=	=	=
Air Quality	Less than Significant	<	<	>
Biological Resources	Less than Significant with Mitigation	<	=	>
Cultural Resources	Less than Significant with Mitigation	<	=	>
Energy	Less than Significant	<	<	=
Geology and Soils	Less than Significant with Mitigation	<	=	>
Greenhouse Gas Emissions	Less than Significant	<	<	>
Hazards and Hazardous Materials	Less than Significant with Mitigation	<	=	>
Hydrology and Water Quality	Less than Significant	<	=	>
Land Use and Planning	Less than Significant	<	=	>
Mineral Resources	No Impact	=	=	=
Noise	Less than Significant with Mitigation	<	=	>
Population and Housing	Less than Significant	<	=	=
Public Services	Less than Significant	<	=	=
Recreation	Less than Significant	<	=	<
Transportation	Less than Significant with Mitigation	<	<	>
Tribal Cultural Resources	Less than Significant with Mitigation	<	=	>

Issue	Proposed Project Impact Classification	Alternative 1: No Project	Alternative 2: Modified Enrollment	Alternative 3: Mt. Vernon Site
Utilities and Service Systems	Less than Significant	<	=	<
Wildfire	Less than Significant with Mitigation	<	=	>
Overall Impact Comparison		18 <	4 <	2 <
		2 =	16 =	7 =
		0 >	0 >	11 >

Note: Comparison of impacts is based on the overall impact of the alternative on the resource or issue.

< The environmental impacts of the alternative would be less than those of the proposed project.

= The environmental impacts of the alternative would be similar to those of the proposed project.

> The environmental impacts of the alternative would be greater than those of the proposed project.

6.7 Environmentally Superior Alternative

CEQA Guidelines Section 15126.6 states that an EIR should identify the “environmentally superior” alternative: “If the environmentally superior alternative is the ‘no project’ alternative, the EIR shall also identify an environmentally superior alternative among the other alternatives.” As shown in the Executive Summary section of this EIR, no significant and unavoidable impacts would occur as a result of the proposed project; accordingly, none of the alternatives is environmentally superior to the proposed project. As shown in Table 6-1 in Section 6.6, *Comparison of Alternatives*, Alternative 1 (No Project) would reduce all the impacts associated with the proposed project. Alternative 2 (Modified Enrollment) would result in similar or lesser environmental impacts on all environmental resources as compared to the proposed project, and Alternative 3 (Renovation/Expansion of Existing STEM Academy at Mt. Vernon Site) would result in lesser environmental impacts on some environmental resources and greater impacts on others as compared to the proposed project. There are different tradeoffs for each alternative in terms of environmental impacts, which are dependent upon the specific resource areas. Individuals and the decision-makers may weigh these resource areas differently.

As shown in Table 6-1 in Section 6.6, *Comparison of Alternatives*, Alternative 1 would be the environmentally superior alternative. Alternative 1 would avoid all environmental impacts associated with the proposed project. However, Alternative 1 would not meet any of the project objectives. If the No Project Alternative is the environmentally superior alternative, CEQA requires identification of an environmentally superior alternative among the remaining alternatives (CEQA Guidelines Section 15126.6[e]).

As shown in Table 6-1 in Section 6.6, *Comparison of Alternatives*, Alternative 2 would result in incrementally reduced impacts to air quality, energy, GHG emissions, and transportation as compared to the proposed project due to the decrease in total VMT associated with the increase in part-time students, who would be bussed to and from campus, and decrease in full-time students being individually dropped off by parents or driving to school. All other environmental impacts of Alternative 2 would be generally similar to those of the proposed project. Alternative 2 would meet project objectives by establishing a flagship, state-of-the-art STEM education facility with an enrollment capacity of approximately 1,200 RUSD students co-located with UCR at a safe and secure location with limited disruption to existing RUSD facilities. Alternative 2 would also fulfill project objectives related to providing a STEM site to support students in grades 9 through 12 with adequate support spaces, multi-functional indoor and outdoor spaces, amenities, and associated

infrastructure; integrating in-class academic STEM curriculum with hands-on interactive practicum opportunities on campus and improved student-to-student collaboration; promoting environmental and sustainability principles; and develop the UCR East Campus in a manner compatible with land uses identified in the UCR Long Range Development Plan. Therefore, Alternative 2 (Modified Enrollment) is considered the environmentally superior alternative.

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[07/4.17%20Utilities%20and%20Service%20Systems_0.pdf](https://pdc.ucr.edu/sites/default/files/2021-07/4.17%20Utilities%20and%20Service%20Systems_0.pdf) (accessed April 2022).

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7.2 List of Preparers

This EIR was prepared by University of California, Riverside (UCR) and Riverside Unified School District (RUSD), with the assistance of Rincon Consultants, Inc. Consultant staff involved in the preparation of the EIR are listed below.

Rincon Consultants, Inc.

Deanna Grabowski Hansen, Principal/Vice President
 Brenna Weatherby, Environmental Planning Principal
 Annaliese Torres, Project Manager/Senior Environmental Planner
 Emily Marino, Environmental Planner
 Ethan Knox, Environmental Planner
 Mabel Chan, Environmental Planner
 Nicholas Carter, Environmental Planner
 Rachel Irvine, Environmental Planner
 Virginia Dussell, Environmental Planner
 Bill Vosti, Program Manager – Air Quality, GHG Emissions, and Noise
 Lucas Carneiro, Air Quality & GHG Specialist
 Ryan Thacher, Environmental Site Assessment Director
 Torin Snyder, PG, CHG, QSD/P ToR, Principal
 Alex Cruz, Senior Environmental Scientist and Geologist
 Angie Harbin-Ireland, Natural Resource Director
 Brenna Vredevelde, Supervising Biologist
 Christina Shushnar, Senior Supervising Biologist/Program Manager
 Jared Reed, Senior Biologist/Project Manager
 Leslie Yen, QSP, Senior Biologist
 Nichole Jordan, Cultural Resource Principal
 Shannon Carmack, Principal Architectural Historian
 JulieAnn Murphy, Senior Architectural Historian
 Andrew Rodriguez, Architectural Historian
 Heather Blind, Senior Archaeologist
 Theadora Fuerstenberg, MA, RPA, Senior Archaeologist
 Andrea Ogaz, Archaeologist
 Jennifer DiCenzo, Paleontological Program Manager
 Andrew McGrath, Ph.D., Paleontologist
 Allysen Valencia, GIS Specialist
 Gina Gerlich, GIS Specialist
 Isabelle Radis, GIS Specialist
 Dario Campos, Formatting & Technical Editor
 Luis Apolinar, Publishing Specialist
 Yaritza Ramirez, Publishing Specialist

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Appendix A

Notice of Preparation and Scoping Comments

**NOTICE OF PREPARATION
ENVIRONMENTAL IMPACT REPORT**

Project Title: Riverside Unified School District Science, Technology, Engineering, and Mathematics Education Center

Lead Agency: University of California, Riverside

Project Location: Southwest corner of Blaine Street and Canyon Crest Drive, University of California, Riverside East Campus

County: Riverside County

Contact Person: Stephanie Tang
University of California, Riverside
Campus Environmental Planner
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

The proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center project (referred to as proposed STEM Ed Center or proposed project) would consist of development of a new STEM education facility to support students in grades 9 through 12. The proposed project is expected to serve a capacity of approximately 800 students and approximately 60 faculty and staff with a split schedule between mornings and afternoons.

The proposed STEM Ed Center site is approximately 6 acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive on the University of California, Riverside's (UCR's) East Campus, adjacent to the UCR Baseball Complex (see Figure 1, Figure 2, Figure 3). The project site is currently developed with an open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the proposed STEM Ed Center site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center.

Existing uses surrounding the project site include residential, institutional, and commercial facilities. To the north and northwest of the site are multi-family residential developments including the Park Hill Apartments and the Stonehaven student housing complex. To the northeast are church, apartment, and commercial uses. The area east of the project site include the mostly undeveloped North District Development and the Falkirk Apartments for student housing and a portion of the underground Gage Canal are located to the south. The REACH Leadership STEAM Academy, a church, a portion of the underground Gage Canal are situated southwest of the site and the UCR Baseball Complex and underground Gage Canal to the west.

The proposed main STEM Ed Center building would be three stories and located primarily in the northeast quadrant of the project site. The surface parking lot would be situated on the southern half of the project site and would contain approximately 153 spaces for staff/faculty, visitors, and student use. Additional accessory buildings and programmed areas may be located to the west of the main building; an amphitheater may be located in the northeast corner of the project site, and a project testing area may be located to the east of the main building.

Environmental Review

The University of California, Riverside will be the Lead Agency and will prepare an Environmental Impact Report (EIR) for the proposed STEM Ed Center project. The EIR will analyze the environmental effects of the physical development, including construction and operation, of the proposed project. Pursuant to the California Environmental Quality Act (CEQA), the EIR will address environmental impacts in the following resource areas: aesthetics, agriculture and forestry resources, air quality, biological resources, cultural resources, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, transportation, tribal cultural resources, utilities and service systems, and wildfire.

CEQA Compliance

In compliance with the State and University of California (UC) guidelines for CEQA implementation, this Notice of Preparation (NOP) is hereby sent to inform interested agencies and the general public that UCR is preparing a Draft EIR for the proposed STEM Ed Center project. As Lead Agency, UCR values views of interested agencies and the general public as to the scope and content of the environmental information relevant to an agency's responsibilities and individual's interest(s) as they relate to the proposed project.

A copy of this NOP, project-related documents, and future project updates will be available for viewing or downloading on the UCR Planning, Design & Construction website at <https://pdc.ucr.edu/environmental-planning-ceqa>.

UCR will hold a public scoping meeting on **Wednesday, March 9, 2022** for the EIR at the following location and time:

- Location:** Grant Elementary School – Auditorium of Grant Administrative Site
4011 14th Street
Riverside, CA 92501
- Time:** 6:00 p.m. – 8:00 p.m.
- Live Feed:** **English:** <https://bit.ly/stemscopingmeeting>
Español: <https://bit.ly/stemscopingmeetingspanish>

Details for meeting attendance are subject to change based on State and local rules and Executive Orders regarding in-person meetings and COVID safety protocols. Please go to <https://pdc.ucr.edu/environmental-planning-ceqa> to confirm remote and in-person attendance details in advance of the meeting date.

We request your input regarding the scope and contents of the EIR for the proposed project. This NOP is being circulated for 30 days, from February 16, 2022 through March 18, 2022. Agency and public comments must be received no later than 5:00 PM on March 18, 2022. Please include the agency, individual, and/or point of contact's name, email and/or mailing address with comments. Please send project comments to:

Stephanie Tang
University of California, Riverside
Campus Environmental Planner
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507



Planning, Design & Construction

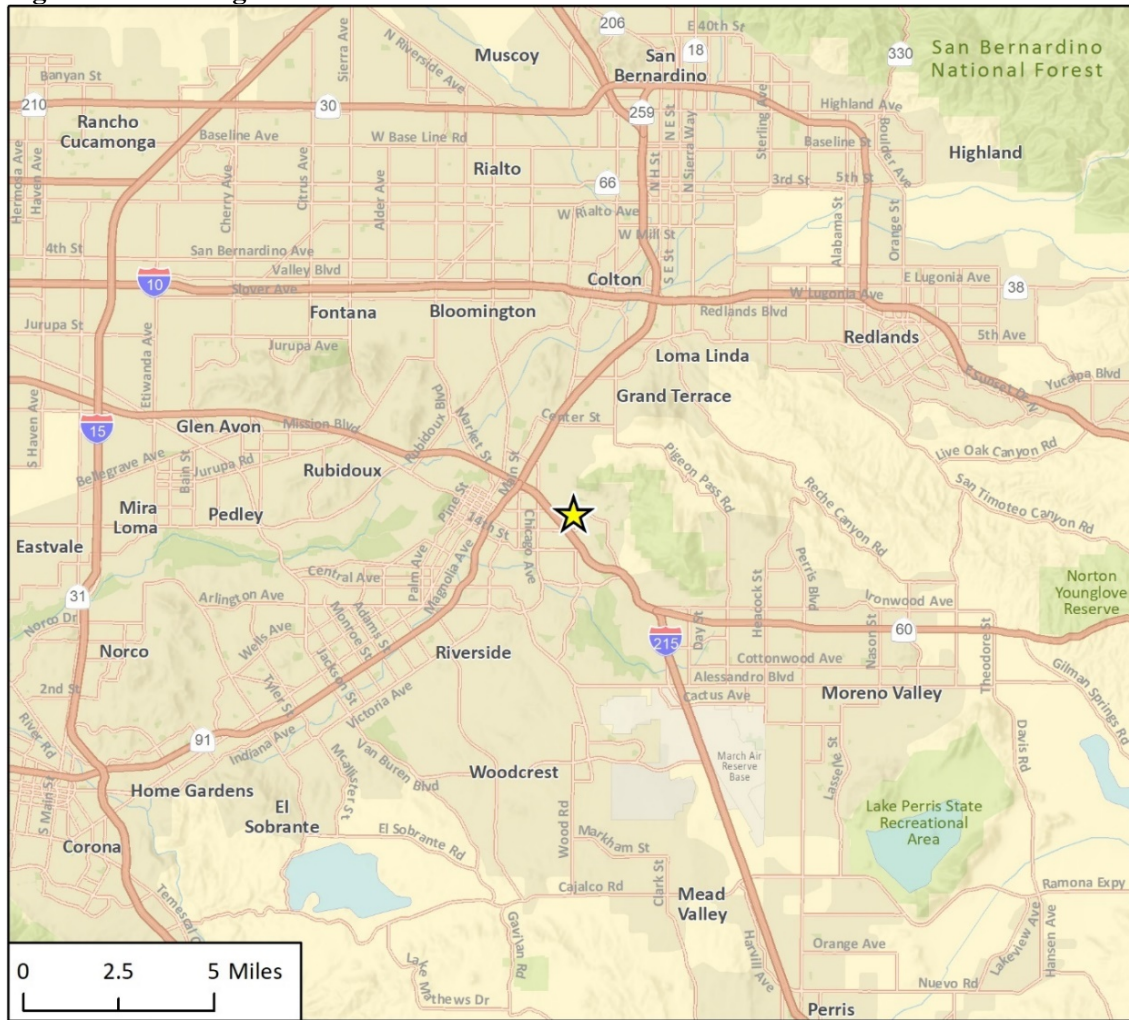
1223 University Avenue, Suite 240

Riverside, CA 92507

Comments can also be submitted via email to the following email address: CEQA@ucr.edu. Email comments must also be received no later than 5:00 PM on March 18, 2022.

If you have any questions regarding this NOP, please contact Stephanie Tang at the above address or via email at CEQA@ucr.edu.

Figure 1 Regional Location



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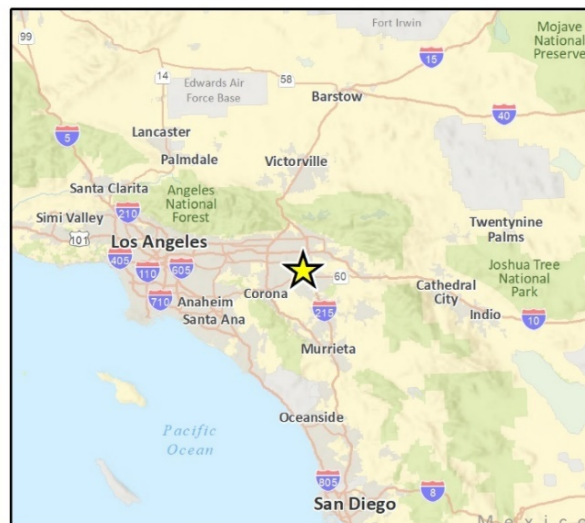
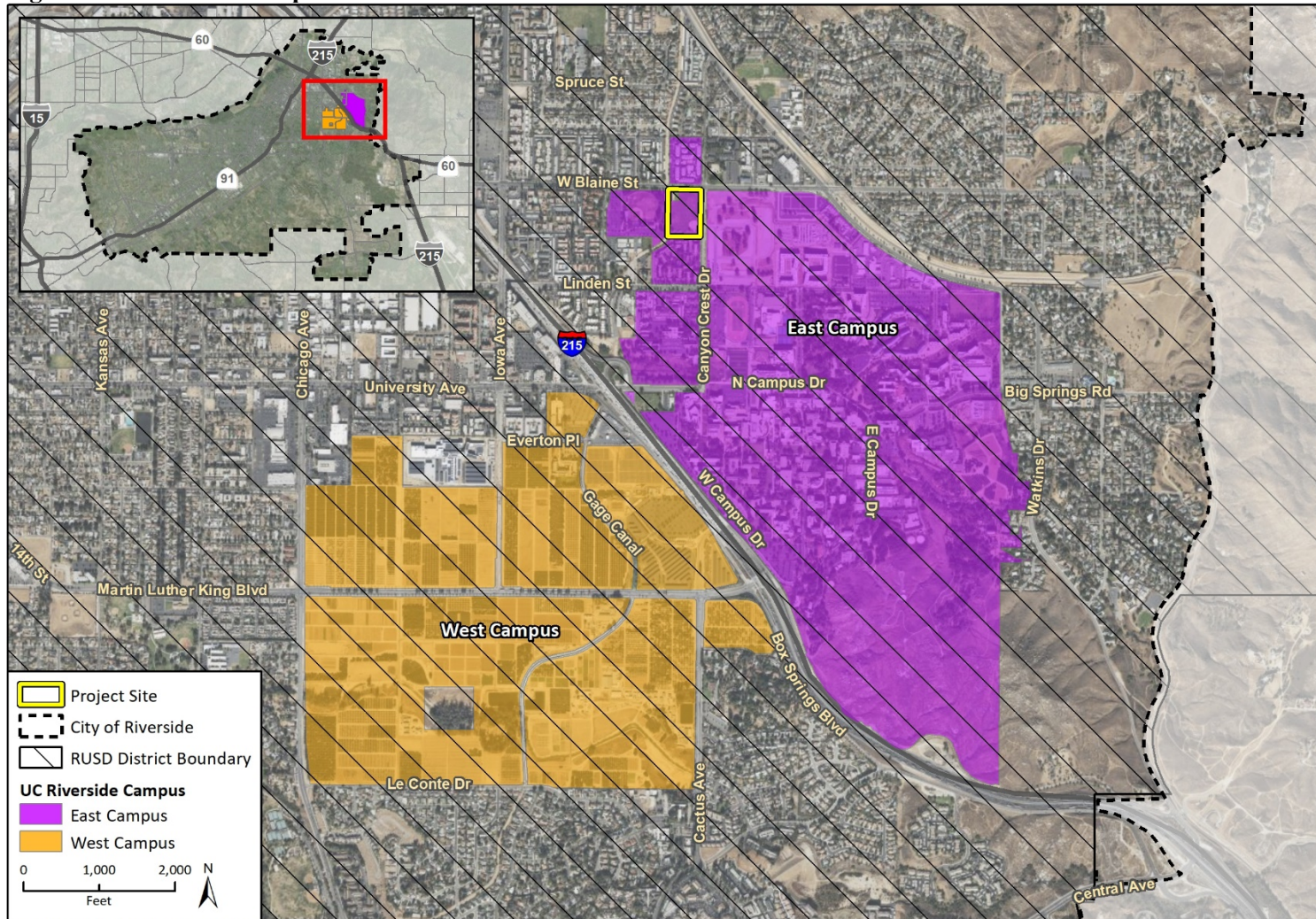


Fig. 1 Regional Location

Figure 2 UCR Campus



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 Data provided by UC Riverside and County of Riverside, 2020.

Fig 2 Project Location

Figure 3 Aerial Map



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Fig. 3 Project Area



Jared Blumenfeld
Secretary for
Environmental Protection



Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
5796 Corporate Avenue
Cypress, California 90630



Gavin Newsom
Governor

March 22, 2022

SENT VIA ELECTRONIC MAIL

Ms. Stephanie Tang
Campus Environmental Planner
Planning, Design & Construction
University of California, Riverside
1223 University Avenue, Suite 240
Riverside, California 92507
CEOA@ucr.edu

Governor's Office of Planning & Research

Mar 22 2022

STATE CLEARINGHOUSE

NOTICE OF PREPARATION FOR ENVIRONMENTAL IMPACT REPORT, RIVERSIDE UNIFIED SCHOOL DISTRICT SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS EDUCATION CENTER PROJECT (SCH #2022020343)

Dear Ms. Tang:

The Department of Toxic Substances Control (DTSC) has received your Notice of Intent to prepare an Environmental Impact Report (EIR) for the Riverside Unified School District Science, Technology, Engineering, and Mathematics (STEM) Education Center project. The project is located at the southwest corner of Blaine Street and Canyon Crest Drive, University of California, Riverside East Campus, Riverside (Site).

The proposed project is expected to serve a capacity of approximately 800 students and approximately 60 faculty and staff with a split schedule between mornings and afternoons. The proposed STEM Education Center site is approximately 6 acres and is located within an urbanized area within the University Campus.

DTSC recommends the following items be addressed in the EIR:

1. Discuss current or historic uses of the project Site that may have resulted in a release of hazardous wastes/substances.
2. Identify any known or potentially releases, investigations and/or contamination within the project Site and evaluate whether conditions at the project Site may pose a threat to human health or the environment.

Ms. Stephanie Tang

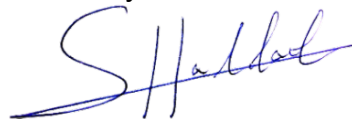
March 22, 2022

Page 2

3. Identify the mechanism to initiate any required investigation and/or remediation, if needed, and the government agency to provide appropriate regulatory oversight.
4. Discuss potential presence of hazardous chemicals related to building materials, such as lead-based paints, mercury, asbestos containing materials, and polychlorinated biphenyl caulking materials. If these chemicals are identified, removal and disposal should be conducted in accordance with applicable local, state and federal regulations and policies.
5. If there are any recognized environmental conditions in the project area, then proper investigation, sampling and remedial actions overseen by the appropriate regulatory agencies should be conducted prior to the new development or any construction. DTSC recommends environmental review under the DTSC schools branch oversight prior to construction to ensure the school is safe for students and staff.
6. Discuss whether project may require soil excavation or filling in certain areas. If soil is contaminated, it must be properly characterized and disposed of. If the project proposes to import soil to backfill the areas excavated, DTSC recommends sampling be conducted in accordance with DTSC's Information Advisory Clean Imported Fill Material (https://dtsc.ca.gov/wp-content/uploads/sites/31/2018/09/SMP_FS_Cleanfill-Schools.pdf)
7. Discuss procedures to be taken if the soil and/or groundwater contamination is suspected during construction/demolition of the project.

If you have any questions regarding this letter, please contact Mr. Johnson P. Abraham, Project Manager, at (714) 484-5380 or Johnson.Abraham@dtsc.ca.gov or me at (714) 484-5368 or Shahir.Haddad@dtsc.ca.gov.

Sincerely,



Shahir Haddad, P.E.
Supervising Engineer
Brownfields Restoration and School Evaluation Branch
Site Mitigation and Restoration Program

mv/ja/sh

cc: See next page

Ms. Stephanie Tang

March 22, 2022

Page 3

cc: (via e-mail)

Governor's Office of Planning and Research

State Clearinghouse

State.clearinghouse@opr.ca.gov

Mr. Dave Kereazis

DTSC/Office of Planning & Environmental Analysis

Dave.Kereazis@dtsc.ca.gov

Mr. Robert Romero

Hazardous Substances Engineer

DTSC/Site Mitigation and Restoration Program

Robert.Romero@dtsc.ca.gov

Mr. Johnson Abraham

Project Manager

DTSC/Brownfields Restoration and School Evaluation Branch

Johnson.Abraham@dtsc.ca.gov

Brownfields Restoration and School Evaluation Branch Reading File – Cypress

NATIVE AMERICAN HERITAGE COMMISSION

February 16, 2022

Governor's Office of Planning & Research

Feb 18 2022

Stephanie Tang, Campus Environmental Planner
University of California, Riverside (UC Riverside)
1223 University Avenue, Suite 240
Riverside, CA 92507

STATE CLEARINGHOUSE

Re: 2022020343, Riverside Unified School District Science, Technology, Engineering, and Mathematics Education Center (RUSD STEM Ed Center) Project, Riverside County

Dear Ms. Tang:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15064.5 (b) (CEQA Guidelines §15064.5 (b))). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1))). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.



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Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
William Hungary
Paiute/White Mountain
Apache

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COMMISSIONER
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COMMISSIONER
Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

- 1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project:** Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
 - a.** A brief description of the project.
 - b.** The lead agency contact information.
 - c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
 - d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

- 2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report:** A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subs. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1 (b)).
 - a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

- 3. Mandatory Topics of Consultation If Requested by a Tribe:** The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
 - a.** Alternatives to the project.
 - b.** Recommended mitigation measures.
 - c.** Significant effects. (Pub. Resources Code §21080.3.2 (a)).

- 4. Discretionary Topics of Consultation:** The following topics are discretionary topics of consultation:
 - a.** Type of environmental review necessary.
 - b.** Significance of the tribal cultural resources.
 - c.** Significance of the project's impacts on tribal cultural resources.
 - d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

- 5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process:** With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

- 6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document:** If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
 - a.** Whether the proposed project has a significant impact on an identified tribal cultural resource.
 - b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

- 7. Conclusion of Consultation:** Consultation with a tribe shall be considered concluded when either of the following occurs:
- a.** The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
 - b.** A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).
- 8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document:** Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).
- 9. Required Consideration of Feasible Mitigation:** If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).
- 10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:**
- a.** Avoidance and preservation of the resources in place, including, but not limited to:
 - i.** Planning and construction to avoid the resources and protect the cultural and natural context.
 - ii.** Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
 - b.** Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - i.** Protecting the cultural character and integrity of the resource.
 - ii.** Protecting the traditional use of the resource.
 - iii.** Protecting the confidentiality of the resource.
 - c.** Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
 - d.** Protecting the resource. (Pub. Resource Code §21084.3 (b)).
 - e.** Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
 - f.** Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).
- 11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource:** An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
- a.** The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.
 - b.** The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
 - c.** The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. **Tribal Consultation**: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. **No Statutory Time Limit on SB 18 Tribal Consultation**. There is no statutory time limit on SB 18 tribal consultation.
3. **Confidentiality**: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. **Conclusion of SB 18 Tribal Consultation**: Consultation should be concluded at the point in which:
 - a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: <http://nahc.ca.gov/resources/forms/>.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
 - a. If part or all of the APE has been previously surveyed for cultural resources.
 - b. If any known cultural resources have already been recorded on or adjacent to the APE.
 - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
 - d. If a survey is required to determine whether previously unrecorded cultural resources are present.
2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.

- b.** The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.
- 3.** Contact the NAHC for:
- a.** A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
 - b.** A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
- 4.** Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
- a.** Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
 - b.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
 - c.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

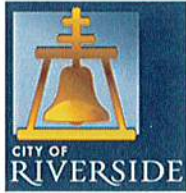
If you have any questions or need additional information, please contact me at my email address:
Andrew.Green@nahc.ca.gov.

Sincerely,



Andrew Green
Cultural Resources Analyst

cc: State Clearinghouse



Community Development
Department
Planning Division

City of Arts & Innovation

March 18, 2022

Stephanie Tang
Campus Environmental Planner
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Subject: City of Riverside's Review of a Notice of Preparation of an Environmental Impact Report for Riverside Unified School District Science, Technology, Engineering, and Mathematics Education Center

Dear Ms. Tang:

Thank you for the opportunity to comment on the Notice of Preparation of an Environmental Impact Report (EIR) for Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center).

The City understands that the proposed STEM Ed Center project consists of the development of a three-story building and surface parking lot on an approximately six acre project site. The City also understands that additional accessory buildings and programmed areas may be located to the west of the main building, such as an amphitheater and a project testing area.

The City has reviewed the project scope, and we wish to provide the following comments:

Community & Economic Development Department - Planning Division:

- The parcel located at 956 Blaine Street (APN: 250-220-003) is currently zoned R-3-1500. This parcel shall be rezoned to the Public Facilities Zone to match the surrounding parcel. A General Application and fee shall be submitted to the Planning Division for review.
- The proposed project shall be consistent with the Development Standards for the Public Facilities Zone, as specified in Section 19.140.030 of the Riverside Municipal Code.
https://library.municode.com/ca/riverside/codes/code_of_ordinances?nodeId=PTIICOOR_TIT19ZO_ARTVBAZOREUSDEPR_CH19.140PUFAZOPF_19.140.030DESTPUFA

Public Works Department – Traffic Engineering Division:

- The Public Works Traffic Engineering Division requests the opportunity to review the scope, drop-off/pick-up circulation & Traffic Analysis Report. We also request that the Traffic Analysis of the intersections and roadways located in the City of Riverside is completed in accordance with the traffic study guideline published at:
<https://www.riversideca.gov/traffic/pdf/TIA%20Guidelines%20-%20July%202020-Final.pdf>

- The proposed project should provide a drop-off/pick up circulation exhibit in the traffic analysis report.
- Based on the review of the draft plan, the Traffic Division has the following comments on circulation, access, and parking:
 - The project should provide a longer student drop-off loop. The draft site plan includes a shorter drop-off loop. Hence, the driveway located at Canyon Crest Drive will restrict the ingress movements.
 - The project should assess the feasibility of a High-Intensity Activated Crosswalk (HAWK) Signal/Mid-Block Crossing at Blaine Avenue to provide pedestrian connection between the Gage Canal Access and southside of Blain Street.
 - The project should assess the opportunity of sharing parking lot with UCR baseball field.
- The traffic study shall include an evaluation of multimodal transportation paths to school including walking, biking, and bus routes.
- The traffic study shall discuss transportation demand management such as carpooling programs, ride sharing programs to the school.
- The site plan shall incorporate a connection to the existing bike routes along Canyon Crest into the school development. Bike racks and bike lockers shall be provided on-site to encourage biking.
- The southwest corner of the intersection of Blaine Street and Canyon Crest Drive shall be designed to include a larger pedestrian congregation area that adequately accommodates students crossing the intersection during dismissal time.

Public Works Department – Land Development Division:

- Public Works requests the preparation of a WQMP, Sewer Study and Hydrology study. The studies should be submitted to the Public Works Department – Land Development Division for review and comment to determine any deficiencies that require upgrades to the City infrastructure.
- A right-of-way dedication is required on Blaine Street.
- The project will be required to pay all Public Works Development Impact Fees (DIF) fees prior to Building Permit Issuance. Please notify the City when Building Permits are ready to issue so that DIF can be collected at that time.

Riverside Public Utilities – Water:

- Please provide the estimated water demands (average, max, and fire flow) for the proposed development - an evaluation will be made on the impacts to the City's existing system and proposed improvements may be required.

Riverside Public Utilities – Energy:

- Riverside Public Utilities – Energy Delivery anticipates that electrical infrastructure improvements will be needed and potentially an additional distribution feeder will be needed in this area to serve the RUSD Stem Ed Center.

Parks, Recreation, and Community Services Department:

- Decommissioning of the Sprint cell tower on city property would result in the City's loss of approximately \$20,000 of revenue annually. Please include this impact in the project analysis and propose mitigation to replace this revenue loss.
- The loss of 6 acres of park land will detract from the City of Riverside's General Plan goal of providing 3 acres of parks per one thousand residents. Include this impact in the project analysis and propose mitigation to replace this lost park acreage.
- The proposed project will exacerbate an existing sports field deficit by removing two large softball fields. The Parks Master Plan identifies an existing deficit of 5 small regulation and 5 large regulation softball fields in the City park system. Prior to the Covid-19 pandemic, three adult leagues operated at the site twice a week, and occasionally the site was used for weekend adult softball tournaments. Increase in demand and usage of the fields is anticipated in the upcoming months as the Covid-19 pandemic infection rates decline and people return to play group sports, and loss of the fields will negatively impact the community. Include this impact in the project analysis, and discuss the feasibility and cost to replace these fields as mitigation.
- The City has a license agreement with the University of California Riverside, to share 50% use of the Riverside Sports Complex. Per the terms of the license agreement the City may be entitled to compensation for early termination of the agreement. Please discuss this issue in the project analysis and propose mitigation if compensation is due.
- Connection to the planned citywide multi-purpose trail system / Trail Master Plan and City General Plan Impacts:
 - Include traffic control measures in the project to allow trail users to safely cross Blaine Street between the school and the City Gage Canal Multipurpose Trail (trail construction anticipated to start summer 2022) and discuss these impacts in the recreation and transportation sections of the EIR.
 - To facilitate implementation of the multi-purpose trail network per the City General Plan and provide a connection from the trail crossing at Blaine Street to the intersection at Canyon Crest Drive, include approximately 450 linear feet of multipurpose trail along the south side of Blaine Street fronting the school. The trail should be developed consistent with the City's Trails Master Plan https://www.riversideca.gov/park_rec/sites/riversideca.gov.park_rec/files/City%20of%20Riverside%20Trails%20Master%20Plan%202021.pdf. Discuss these impacts in the recreation and transportation sections of the EIR.

The City of Riverside appreciates your consideration of the comments provided in this letter. Please forward the pending Draft EIR for the STEM Ed Center Project to the City of Riverside Planning Division. Should you have any questions regarding this letter, please contact Scott Watson, Historic Preservation Officer, at (951) 826-5507, or by e-mail at swatson@riversideca.gov.

We thank you again for the opportunity to provide comments on this proposal and look forward to working with you in the future.

Sincerely,

A handwritten signature in blue ink, appearing to read "David Murray", with a long horizontal stroke extending to the right and a diagonal line crossing it from the bottom right.

David Murray
Principal Planner

- cc: Patricia Lock Dawson, Mayor
Riverside City Council Members
Al Zelinka, FAICP, CMSM, City Manager
Rafael Guzman, Assistant City Manager
Chris Christopoulos, Acting Community & Economic Development Director
Mary Kopaskie-Brown, City Planner
Gilbert Hernandez, Public Works Director
Todd Corbin, Public Utilities General Manager
Pamela Galera, Parks, Recreation and Community Services Director
Phaedra Norton, City Attorney

From: Foundation RSA <[REDACTED]>
Sent: Friday, March 18, 2022 4:26 PM
To: ceqa@ucr.edu
Subject: STEM Education Center EIR

March 18, 2022

Dear Ms. Tang,

As for the scope of the CEQA document, I can't imagine there will be many environmental issues with this highly urbanized piece of land. The only issues that I can envision, which occur with every project, are traffic and air pollution.

As for traffic and the associated air pollution, one advantage of having a high school on this site is that a high school can be flexible with mitigation measures. For example, a high school can set its own start time which can be adjusted to minimize the effect of traffic at peak traffic times. This would only be needed for the morning drop-off since school is out well before the afternoon rush hour.

Also, high schools can make excellent use of busing to bring students to the building. This is a highly efficient way to reduce traffic and also saves on air pollution since it greatly reduces the number of individual vehicle trips required to get each student to school.

I don't know that CEQA takes into account the fact that students need to go to school somewhere and so traffic and air pollution would be associated with whatever school they go to. And air pollution, of course, does not stay in one area but diffuses and affects the whole city.

In that regard it is noteworthy that RUSD is a District of Choice which means that students can choose to go to schools outside of their home area. In fact, many students do transfer to schools and programs that are not in their neighborhoods. In addition to the STEM Academy, students go to the Dual Language Immersion (DLI) programs, the Core Curriculum program at Bryant Elementary, the International Baccalaureate (IB) program at North High School, etc. I saw a statistic on the North High School IB site that as many as 25% of the students at North are transfer students. Thus it is not unusual for students to go to schools outside their neighborhoods such as would be the case for most students at the STEM Education Center.

There is one other potential issue that is specific to this site and that is the current use of the site as a recreation field. I often drive by this site and it is very rare that anyone is using it. Occasionally on Saturday mornings there is a pick-up soccer game on the site (and unclear if it is UCR students or others who are using the field and if it is officially sanctioned). I would say this is one of the most underutilized pieces of land at UCR.

Of course there is no such thing as a project that is without impacts, but then the question becomes more of a mitigation problem and finally, a cost benefit analysis. Thus, I would like to spend the rest of my comments on the benefits of having the STEM Education Center on the UCR campus.

In my opinion, there are several benefits to having this Education Center and high school on the UCR campus versus off campus. As you may know, the current STEM high school is about one mile away from the UCR campus but moving on to campus will radically change two factors: first the ability of people at UCR to volunteer at the high school and second the ability for students to imagine themselves as going to college.

As for volunteering, at the current location we do get some volunteers from UCR and when we do it is wonderful and impactful. However, as you can imagine, it's difficult to get people who are already very busy to walk a mile off campus, volunteer, and then walk a mile back – and it is no easier with driving when you figure in finding parking back at UCR. In contrast, having the high school integrated into the UCR campus means it will be a short walk through campus to volunteer. This will greatly facilitate the ability of STEM faculty, staff, post-docs, graduate students and undergraduate students to volunteer. It is this interaction that's key – that's what's special – not the fancy building.

My second point has to do with the power of physically being on a university campus. I heard a recent interview on local radio where they were discussing a study called "Inland Empire Teens and College: Student Perceptions, Plans and Obstacles" and the researcher, Dr. Olivares, said and I quote "Parents, or schools or even the colleges don't realize how important it is for teens to be able to physically be someplace in order to imagine themselves there." The STEM High School students on campus will definitely be able to imagine themselves as university students. And because the Center will also serve as a Hub for the district, students from all of our schools can have a chance, through field trips and summer programs, to be on a university campus and to imagine themselves going to college. This can be especially important for our kids who will be the first in their family to go to college.

I know there may be challenges to overcome for this project but there are huge benefits to being on campus.

Kind Regards,

Melody Clark, Ph.D.

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From: **Foundation RSA** <[REDACTED]>

Date: Thu, Mar 10, 2022 at 1:30 PM

Subject: CEQA Scoping Meeting

To: Sergio San Martin <ssanmartin@riversideunified.org>, Anazele Gonzalez <anagonzalez@riversideunified.org>, Gayat Adame <gadame@riversideunified.org>

Dear Sergio,

Thank you to you and your team for coordinating the CEQA scoping meeting last night for the STEM Center at UCR project. It was a lively meeting, as usual. Just so you know, we had two people who submitted comments to us who could not be at the meeting and I asked at the check-in and comment card tables if we could read them during the meeting and was told that they should be sent instead (which made sense).

I am writing today to say that it is inconceivable to us that after all the delays and meetings for this project, including two UCR community meeting about the Watkins site which lead to switching to the Blaine site and two more UCR community meetings about this site, that there would even be the proposal of extra scoping meetings. I did speak to council member Cervantes after the meeting and she was not aware that we had already had two community meetings about this site. She said she was just passing along the request of a constituent, which of course is part of her job.

I hope that this unusual request is not even being considered, but just in case I wanted to let you know our position. Please feel free to contact me with any questions.

Kind Regards,
Melody



INLAND EMPIRE BIKING ALLIANCE

17 March 2022

University of California, Riverside
Attn: Stephanie Tang, Campus Environmental Planner
1223 University Avenue Suite 240
Riverside, CA 92507

Submitted via email to CEQA@ucr.edu.

Dear Ms. Tang:

I am writing on behalf of the Inland Empire Biking Alliance to provide comments in response to the Notice of Preparation which has been made available for the RUSD STEM Ed Center Project. Upon review of the materials, we have a few areas of interest that we would like to provide some comments to see addressed as part of the EIR process.

Based on the description of the Project, we want to point out the opportunity for bicycles to help reduce transportation pressures to serve the site and ensure that this is fully explored as part of the EIR process. A recent Notice of Exemption filing by the City of Riverside (SCH #2022020488) for the Gage Canal Trail indicates that the City will soon be constructing a Class I bicycle path along the Gage Canal north of Blaine which would provide a direct connection to practically the doorstep of the Project site.

Additionally, it would be ideal for the west side of the Project site along the Gage Canal to be rebuilt to match the specifications of the path as being built by the City on the north side of Blaine. This would enhance its usefulness as a connection to the Project as well as the UCR campus and set the opportunity for further enhancement of that access with future extensions of the Trail. Similarly, there should be easy access from the Trail to the Project so that users who are traveling to the Project are able to easily arrive.

Thank you for your time and the opportunity to provide these comments. If there are any additional comments or clarification sought, please do not hesitate to reach out to have questions answered.

Sincerely,

A handwritten signature in black ink, appearing to read "Marven E. Norman".

Marven E. Norman, Executive Director



INLAND EMPIRE BIKING ALLIANCE

CC: Jordan Maus, City of Riverside

Attachment: IEBA response letter to City of Riverside Gage Canal Trail Notice of Exemption (SCH #2022020488)

About IEBA The Inland Empire Biking Alliance is advocating for making the Inland Empire a better place for people from all rolls of life. From the children just learning how to ride to the mountain bikers to those headed back and forth to work, school, or their preferred shopping center and beyond, we speak up to make sure they all have safe and convenient place to ride.



Rincon Band of Luiseño Indians

CULTURAL RESOURCES DEPARTMENT

One Government Center Lane | Valley Center | CA 92082
(760) 749-1092 | Fax: (760) 749-8901 | rincon-nsn.gov



March 7, 2022

Sent via email: stephanie.tang@ucr.edu

Ms. Stephanie Tang
UC Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Re: Request for Consultation on the RUSD STEM Center at the University of California, Riverside, California

Dear Ms. Tang,

This letter is written on behalf of the Rincon Band of Luiseño Indians (“Rincon Band” or “Tribe”), a federally recognized Indian Tribe and sovereign government. We have received your Notice of Preparation of an Environmental Impact Report regarding the above-mentioned project and we request consultation to assess potential impacts to cultural resources. The identified location is within the Traditional Use Area (TUA) of the Luiseño people. As such, the Rincon Band is traditionally and culturally affiliated to the project area.

The Rincon Band requests to be notified and involved in the entire CEQA environmental review process for the entirety of the project’s duration. Please also include the Band on all distribution lists for environmental document reviews, consultations, circulation of public documents, and notices for public hearings and scheduled approvals.

If you have additional questions or concerns, please do not hesitate to contact our office at your convenience at (760) 749 1092 ext. 323 or via electronic mail at cmadrigal@rincon-nsn.gov. Thank you for the opportunity to protect and preserve our cultural assets.

Sincerely,



Cheryl Madrigal
Tribal Historic Preservation Officer
Cultural Resources Manager



Peter Aldana
Riverside County
Assessor-County Clerk-Recorder
2724 Gateway Drive
Riverside, CA 92507
(951) 486-7000
www.rivcoacr.org

Receipt: 22-71977

Product	Name	Extended
FISHREJ	CLERK FISH AND GAME REJECTION	\$0.00
	# Pages Scanned	7
	Document #	REJCL-202200362
	Document Info:	UC RIVERSIDE
Total		\$0.00
Change (Cash)		\$0.00

MAR1'22 PM2:01

UCR CAPITAL PROGRAMS



PETER ALDANA
COUNTY OF RIVERSIDE
ASSESSOR-COUNTY CLERK-
RECORDER
www.rivcoacr.org

Assessor
(951) 955-6200

County Clerk-Recorder
(951) 486-7000

Mailing Address
P.O. Box 751
Riverside, CA 92502-0751

UC RIVERSIDE
PLANNING DESIGN & CONSTRUCTION
1223 UNIVERSITY AVENUE SUITE 240
RIVERSIDE, CA 92507

FISH AND GAME RETURN NOTICE

REJCL-202200362

Applicant Name:
Lead Agency Name:

WE ARE UNABLE TO PROCESS THE ENCLOSED PAPER(S) FOR THE FOLLOWING REASON(S)

*Other: (See Below)

Notes: per Assembly Bill No. 819 all documents and notices must be filed electronically.

a form is attached to give you further instructions

FEES

Notice of Determination / Negative Declaration – The Fee is: \$2,480.25 Fish & Game + \$50.00 County Clerk Handling fee for a Total of \$2,530.25 - with No Effect Determination – Total Filing Fee: \$50.00

Notice of Determination / Environmental Impact Report – The Fee is: \$3,445.25 Fish & Game + \$50.00 County Clerk Handling fee for a Total of \$3,495.25 – with No Effect Determination – Total Filing Fee: \$50.00

Notice of Exemption – \$50.00 County Clerk Handling fee

Notice of Preparation of Negative Declaration or a Notice of Hearing – No fee

DATE: Feb 18, 2022

Peter Aldana
Assessor-County Clerk-Recorder
By: Cassandra #378, Deputy

TELEPHONE: (951) 486-7000

TO EXPEDITE FURTHER PROCESSING, THIS FORM SHOULD BE RETURNED WHEN RESUBMITTING DOCUMENTS TO COUNTY CLERK SECTION AT ABOVE ADDRESS



**NOTICE OF PREPARATION
ENVIRONMENTAL IMPACT REPORT**

Project Title: Riverside Unified School District Science, Technology, Engineering, and Mathematics Education Center

Lead Agency: University of California, Riverside

Project Location: Southwest corner of Blaine Street and Canyon Crest Drive, University of California, Riverside East Campus

County: Riverside County

Contact Person: Stephanie Tang
University of California, Riverside
Campus Environmental Planner
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

The proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center project (referred to as proposed STEM Ed Center or proposed project) would consist of development of a new STEM education facility to support students in grades 9 through 12. The proposed project is expected to serve a capacity of approximately 800 students and approximately 60 faculty and staff with a split schedule between mornings and afternoons.

The proposed STEM Ed Center site is approximately 6 acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive on the University of California, Riverside's (UCR's) East Campus, adjacent to the UCR Baseball Complex (see Figure 1, Figure 2, Figure 3). The project site is currently developed with an open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the proposed STEM Ed Center site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center.

Existing uses surrounding the project site include residential, institutional, and commercial facilities. To the north and northwest of the site are multi-family residential developments including the Park Hill Apartments and the Stonehaven student housing complex. To the northeast are church, apartment, and commercial uses. The area east of the project site include the mostly undeveloped North District Development and the Falkirk Apartments for student housing and a portion of the underground Gage Canal are located to the south. The REACH Leadership STEAM Academy, a church, a portion of the underground Gage Canal are situated southwest of the site and the UCR Baseball Complex and underground Gage Canal to the west.

The proposed main STEM Ed Center building would be three stories and located primarily in the northeast quadrant of the project site. The surface parking lot would be situated on the southern half of the project site and would contain approximately 153 spaces for staff/faculty, visitors, and student use. Additional accessory buildings and programmed areas may be located to the west of the main building; an amphitheater may be located in the northeast corner of the project site, and a project testing area may be located to the east of the main building.



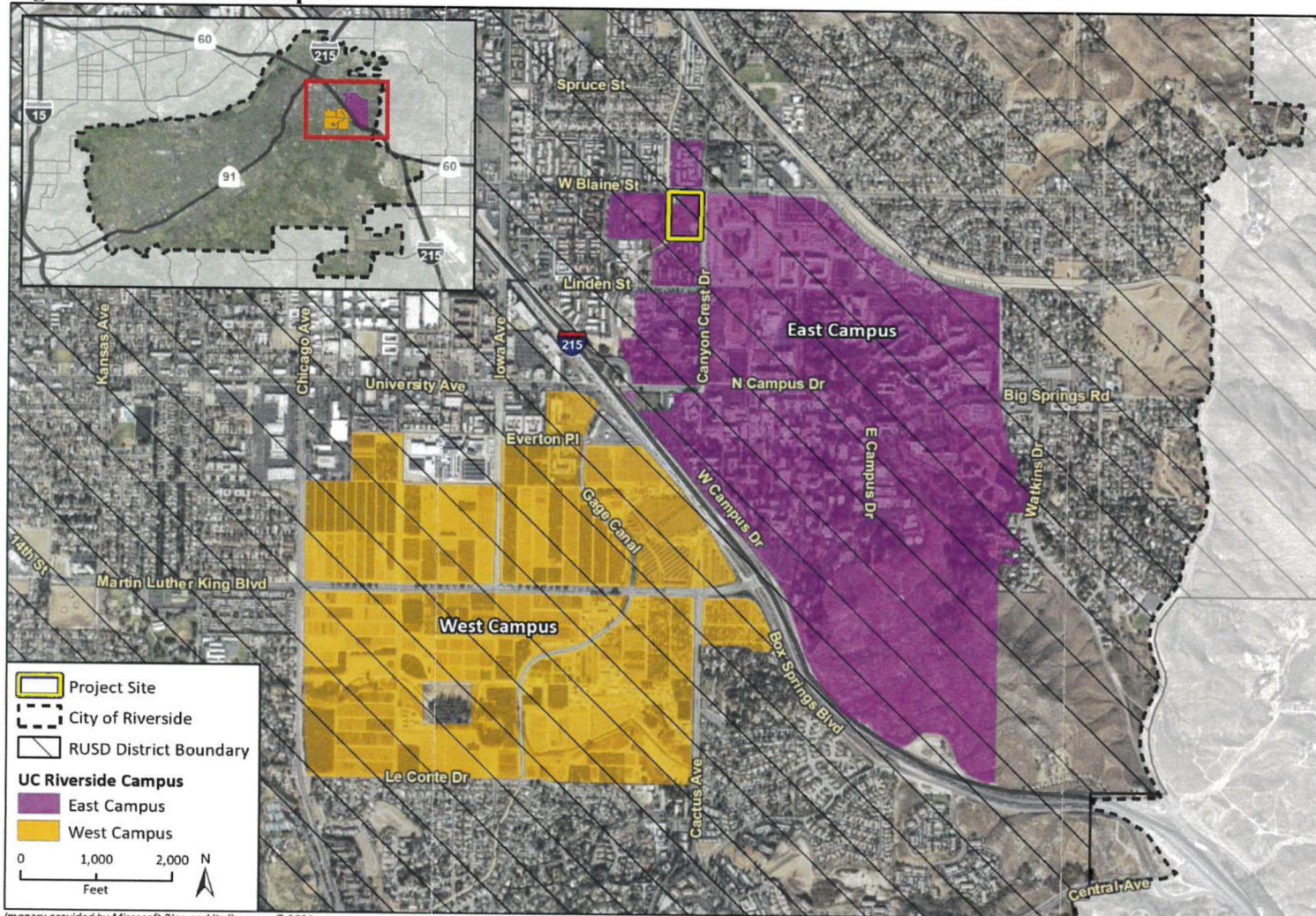
Planning, Design & Construction

1223 University Avenue, Suite 240
Riverside, CA 92507

Comments can also be submitted via email to the following email address: CEQA@ucr.edu. Email comments must also be received no later than 5:00 PM on March 18, 2022.

If you have any questions regarding this NOP, please contact Stephanie Tang at the above address or via email at CEQA@ucr.edu.

Figure 2 UCR Campus



Imagery provided by Microsoft Bing and its licensors © 2021.
 Data provided by UC Riverside and County of Riverside, 2020.



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL:

March 8, 2022

CEQA@ucr.edu

Stephanie Tang, Campus Environmental Planner
University of California, Riverside
1223 University Avenue, Suite 240
Riverside, California 92507

Notice of Preparation of an Environmental Impact Report for the Riverside Unified School District Science, Technology, Engineering, and Mathematics Education Center (Proposed Project)

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. Our comments are recommendations on the analysis of potential air quality impacts from the Proposed Project that should be included in the Environmental Impact Report (EIR). Please send a copy of the EIR upon its completion and public release directly to South Coast AQMD as copies of the EIR submitted to the State Clearinghouse are not forwarded. **In addition, please send all appendices and technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all emission calculation spreadsheets, and air quality modeling and health risk assessment input and output files (not PDF files). Any delays in providing all supporting documentation for our review will require additional review time beyond the end of the comment period.**

CEQA Air Quality Analysis

Staff recommends that the Lead Agency use South Coast AQMD's CEQA Air Quality Handbook and website¹ as guidance when preparing the air quality and greenhouse gas analyses. It is also recommended that the Lead Agency use the CalEEMod² land use emissions software, which can estimate pollutant emissions from typical land use development and is the only software model maintained by the California Air Pollution Control Officers Association.

South Coast AQMD has developed both regional and localized significance thresholds. South Coast AQMD staff recommends that the Lead Agency quantify criteria pollutant emissions and compare the emissions to South Coast AQMD's CEQA regional pollutant emissions significance thresholds³ and localized significance thresholds (LSTs)⁴ to determine the Proposed Project's air quality impacts. The localized analysis can be conducted by either using the LST screening tables or performing dispersion modeling.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of

¹ South Coast AQMD's CEQA Handbook and other resources for preparing air quality analyses can be found at: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>.

² CalEEMod is available free of charge at: www.caleemod.com.

³ South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>.

⁴ South Coast AQMD's guidance for performing a localized air quality analysis can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>.

heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips, and hauling trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers and air pollution control devices), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA *operational* thresholds to determine the level of significance.

If the Proposed Project generates diesel emissions from long-term construction or attracts diesel-fueled vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment⁵.

In the event that implementation of the Proposed Project requires a permit from South Coast AQMD, South Coast AQMD should be identified as a Responsible Agency for the Proposed Project in the EIR. The assumptions in the air quality analysis in the EIR will be the basis for evaluating the permit under CEQA and imposing permit conditions and limits. Questions on permits should be directed to South Coast AQMD's Engineering and Permitting staff at (909) 396-3385.

Mitigation Measures

In the event that the Proposed Project results in significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize these impacts. Any impacts resulting from mitigation measures must also be analyzed. Several resources to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project include South Coast AQMD's CEQA Air Quality Handbook¹, South Coast AQMD's Mitigation Monitoring and Reporting Plan for the 2016 Air Quality Management Plan⁶, and Southern California Association of Government's Mitigation Monitoring and Reporting Plan for the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy⁷.

South Coast AQMD staff is available to work with the Lead Agency to ensure that air quality, greenhouse gas, and health risk impacts from the Proposed Project are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov.

Sincerely,

Lijin Sun

Lijin Sun

Program Supervisor, CEQA IGR

Planning, Rule Development & Area Sources

LS
RVC220217-08
Control Number

⁵ South Coast AQMD's guidance for performing a mobile source health risk assessment can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis>.

⁶ South Coast AQMD's 2016 Air Quality Management Plan can be found at: <http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf> (starting on page 86).

⁷ Southern California Association of Governments' 2020-2045 RTP/SCS can be found at: https://www.connectsocial.org/Documents/PEIR/certified/Exhibit-A_ConnectSoCal_PEIR.pdf.

FILENAME: CEQA Speech 9 MARCH 2022

Dear UCR CEQA Commissioners/Stephanie Tang/RUSD Board Members:

THE FOLLOWING ARE PUBLIC COMMENTS BY ANTHONY aNORIEGA PRESENTED ON 9 MARCH 2022 REFERENCE NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT IN COMPLIANCE WITH CEQA: For the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center project (referred to as proposed STEM Ed Center).

I the Director District 5 - League of United Latino American Citizens (LULAC) for the Inland Empire, I am providing public comments on four key issues 1) Recreation 2) Transportation/Traffic Congestion 3) Air Pollution and 4) Parking.

RECREATION: The project site is currently developed with an open recreational field with two baseball diamonds. On the project site, is one of two intramural fields being used by UCR students, faculty members, UCR neighbor organizations, residents, children, and by adjacent RUSD schools. The Outdoor Fields at the Blaine Sports Complex include such activities as sporting events, picnics, festivals, laser tag tournaments, soccer and softball tournaments. The elimination of the two intramural fields at the building site will negatively impact the availability/opportunities for students and surrounding UCR neighborhood communities, leaving them without an alternative plan or alternate location to move the fields . There are no plans to mitigate the impact on the community or to replace the two Blaine intramural fields. The fields will be demolish with zero plans or money for replacement.

TRANSPORTATION/TRAFFIC CONGESTION: With the estimated 800 full-time students and 400 part-time students anticipated to attend the UCR STEM Ed Center during the day and with the Falkirk Student dorms adjacent the to UCR Stem School location (Current population of approximately 2,000, scheduled to expand to 6,000 after phase 2 and phase 3 are completed) will dramatically causing an influx of traffic related problems impacting not only the UCR Stem Educational Center but the immediate surrounding area and will cause problems involving neighborhood traffic concerns such as traffic jams at particular times of day, places, or event sites, Cut-through” traffic, speeding, intersection conflicts and dangers, conflicts between residential and

commercial traffic in the neighborhood, conflicts among vehicles, pedestrians, bicycles, electric scooters, delivery food and vans, and the like that could cause injury or result in deadly fatalities. UCR official's have failed to address these problems or to officer mitigation or lessen the impact on the community/ The UCR STEM Educational school will guarantee more traffic while UCR continues to build multiple massive buildings across the street (student Dorms for 6,000 students) that will only exacerbate the problem.

AIR POLLUTION:

The air quality is According to the U.S. Department of Energy, "[h]ighway vehicles release about 1.7 billion tons (1.5 billion metric tons) of greenhouse gases (GHGs) into the atmosphere each year — mostly in the form of carbon dioxide (CO₂) — contributing to global climate change. Each gallon of gasoline you burn creates 20 pounds (9 kilograms) of GHG. That's roughly 6 to 9 tons (5 to 8 metric tons) of GHG each year for a typical vehicle."

According to a U.S. Greenhouse Gas Economic Sector review conducted in 2018, according to the the EPA , transportation accounted for 28% of the green house gas emissions in the US in 20218 and 72% of that fuel consumption was due to personal vehicle, Cars, light trucks, vans etc.

Meanwhile, UC Riverside fights air pollution with the new air quality study, UCR has been awarded \$2 million in funding from the , "The Marlan and Rosemary Bourns College of Engineering Center for Environmental Research and Technology" the lead project is at UCR. This project is part of the OMEGA Initiative: Objective Measurement of Emissions from Goods Movement and Impacts on Air Quality. The goal of this study is to target the source of the air pollution in hopes of lessening the impacts locally. So on one hand UCR has been awarded funds to study factors to lessen air pollution, while concurrently building UCR STEM school and ignoring the fact that the project is destined to indirectly be cause the air quality to deteriorate drastically.

PARKING: The surface parking lot would be situated on the southern half of the project site and would contain only a limited 153 spaces for staff/faculty, visitors, and student use. With an estimated of 800 full-time student and 400 parttime-students using the STEM school, the proposed parking plans are grossly inadequate and underestimate the actual parking needs of the STEM

school participants, faculty, visitors and for handicap parking requirements. If the 60 faculty members are provided priority parking over others, then only 93 parking spots would be available for students, visitors and handicap parking. The STEM students would be constantly struggling for parking as they will be prohibited by UCR from using the other UCR parking facilities. The only option the students will have is to search out business parking and nearby neighborhoods in search for parking. which because of the limited parking spaces. Community group are certain to complain and that students and others are encroaching on nearby neighborhoods taking up limited parking spaces. There are no plans to mitigate and/or lessen the negative impact of not having adequate parking for the STEM school.



Anthony Noriega

Riverside, Ca.

Anthony Noriega,
Director District 5, LULAC de Inland Empire
Member, California LULAC Civil Rights and Advocacy Committee
1(951)236-5684
anoriega1947@gmail.com
"This is not the time to be silent"
Integrity - Commitment - Justice

From: barbara Robinson [REDACTED]
Sent: Tuesday, March 15, 2022 1:57 PM
To: CEQA@ucr.edu
Subject: Stem Center

I am writing this letter to add my voice as an individual in Riverside strongly in support of the STEM Academy and its placement on the UCR campus.

I have had a long and proud association with UCR,, serving on the foundation for many years and serving as chair during my tenure. My family and I have supported athletics,, scholarship programs and the school of business We understand the significant contribution UCR makes to our community and our county. We have been so proud of the partnership and leadership UCR has shown in the development of the STEM academy.

I have attended many school board meetings in support of moving this project forward. It is a wonderful school that has achieved outstanding results. This academy is a clear way to provide low-income and minority students access to a high-quality education and to provide families an even playing field to ensure their children have an opportunity for social mobility.

As someone who worked for a national company for many years and had to recruit executives to move into the Inland Empire I fully understand the value of excellent school choices. I know they are one of the most valuable tools to enable us to attract and retain top talent in our region and the STEM academy is essential to that end.

Thank you for allowing me the opportunity to speak in support of STEM.

Barbara Robinson

From: [REDACTED]
Sent: Thursday, March 17, 2022 2:52 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

Please accept this electronic message as my overwhelming endorsement and support for the Riverside STEM Academy Education Center!

As a 32-year real estate practitioner in our community I am forced to remain up to date with the quality of our schools and educational system. Sadly, for some years, the perceived quality of our educational system has been in decline as measured by rankings provided the result of standardized testing and measurement of our students' overall aptitude. Schools within our district once perceived to be excellent score at best 7 out of 10 in these rankings....many of them below this even scoring at the level of 6,5, 4 or worse.

This has the effect of driving our work force to other communities with perceived superior educational opportunities and requiring those parents to commute to their jobs in Riverside or worse commute their kids to surrounding communities as far away as Orange and even LA counties for "better" schools. My own Alma Mater of Polytechnic High School, long esteemed for the educational excellence of its student, currently scores a paltry 7 and feeder schools such as Gage Middle and Washington Elementary Schools an even more dismal 4.

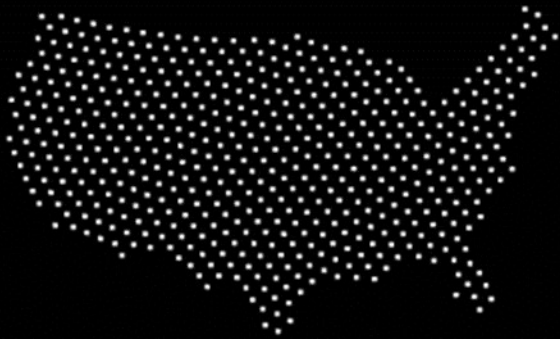
The STEM Academy provides the only superior choice for those families with children who excel in various Math and Science subjects to consider when selecting our community as an educational center and the current facility is lacking in the ability to meet the current demand and future needs as they rapidly grow. The development of the STEM Educational Center will finally provide this desperately needed community amenity an appropriate permanent home and facilities.

Please consider the dire need of our community's families for excellent educational services so as to prevent us from falling even further behind our neighboring communities in eastern Orange and LA counties and even Southwest Riverside County. We are losing valuable members of our work force to these communities rather than having them work , LIVE and EDUCATE their children in our own city. We need to provide excellent education for our youth in hopes that they remain in the community choosing to raise their own families here BECAUSE of our quality-of-life opportunities including education, rather than chose to live elsewhere for these needs.

Respectfully,

Brad Alewine
REALTOR®
DRE#: 01104973

6930 Indiana Avenue
Suite 1
Riverside, CA . 92506
m: [REDACTED]



Delivering a modern
real estate experience
from coast to coast.

From: Brian Jaramillo <[REDACTED]>
Sent: Wednesday, March 16, 2022 4:32 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

Dear CEQA Team,

I am writing in support of the STEM Education Center at UCR. The Riverside STEM Academy is a shining example of how Riverside Unified School District is adapting to prepare students for technical careers. As a community, we are also in the unique position of being home to a vibrant and growing University of California campus within our city and district boundaries that welcomes the synergy of hosting a STEM Education Center on their campus. What an opportunity to take a huge step towards growing our successful STEM Academy, add value to UCR students, build our local economy, and prepare our entire community for an ever increasing technical future.

Brian Jaramillo
[REDACTED]
[REDACTED]
[REDACTED]

From: [REDACTED]
Sent: Tuesday, March 15, 2022 2:42 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

This message is in support of the STEM Center at UCR. This very diverse school with its high ranking in the state provides a unique opportunity for a high quality education for low income and minority students. With the location on the UCR campus, it provides hope and a clear opportunity for students to see themselves attending college and the benefits of a higher education.

We owe it to our community to prepare and produce an educated workforce to meet future job demands, many of which will be STEM-based.

Respectfully,

Bud and Claudia Luppino
6804 Canyon Hill Drive
Riverside CA 92506

[REDACTED]
[REDACTED]

From: Candace Spiel <[REDACTED]>
Sent: Thursday, March 17, 2022 6:10 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EI

To Whom It May Concern:

This message is to tell you of my husband, Tom, and my support for the STEM Center at UCR.

Excellent school choices provide one of the best opportunities for children from economically disadvantaged families to change the direction of their lives and that of their families. Riverside STEM Academy is the most diverse school in the district. Entry is open to all students of RUSC, through a lottery system carefully weighted in favor of economically disadvantaged families. Total minority enrollment is 66%, with 32% of students economically disadvantaged.

After being in operation for only ten years, Riverside STEM Academy is ranked #1 in the Riverside Metropolitan area and all RUSD, and #4 in the entire state of California, out of 1,675 schools reviewed. It is ranked #62 in our nation. This is according to US News and World Report. Low-income and minority students need access to a high-quality education. Riverside STEM Academy and UCR – both public schools – provide families an even playing field and give children an opportunity for social mobility.

The STEM Center located on the UCR campus provides a clear pipeline for these students who may have never pictured themselves going to a university with a greater understanding of the benefits of higher learning.

As members of the Riverside community, we believe our region has an obligation to prepare and produce an educated workforce not only to improve the lives of young people but also to meet future job demands, which will be heavily STEM-based.

For these and other reasons, we heartily support the STEM Center at UCR.

Sincerely,

Candace

Candace Spiel [REDACTED]



Integrated Care Communities, Inc.

CORPORATE OFFICE
11751 Davis Street
Moreno Valley, CA, 92557
Ph. 951.243.3837
Fax 951.485.6036

Dear Ms. Tang:

I am writing in support of the planned STEM High School Academy Campus to be placed upon the University of California Riverside property in a location I believe is appropriate and well designed for minimal impact upon the surrounding neighborhoods.

The concept of a High School placed upon University property is not unique yet groundbreaking enough to justify widespread community support.

The obvious synergistic location allows High School students to benefit from University mentors and role-models while enjoying University Libraries, research labs, and other resources not currently available to a high school student.

The University benefits from exposure to high school students eager to take advantage of their location.

The benefits of this high school located on the grounds of the University far outweighs the minimal impact of student traffic both arriving and leaving at set times twice a day that do not interfere with local access or egress.

Both of my children attended STEM Academy Middle School and received a superior education which placed them in a favorable position compared to the students they competed against.

I highly recommend a favorable CEQA finding in this project.

Thank you,

Carl E. Rowe
President
Integrated Care Communities

From: [REDACTED]
Sent: Friday, March 18, 2022 2:50 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

To Whom It May Concern:

We are writing this letter in support of STEM establishing location on the UCR campus and in support of the longterm benefits of a pipeline to/exposure to higher education that would not be the case if STEM were be to located independently and if located elsewhere than on the UCR campus. It seems evident that outcome measurements of such a pilot project will be much higher for a large range of outcome data, than could be otherwise expected, if STEM education is based on a university campus and if it has opportunity to gain the wide support and proud encouragement from the larger Riverside community.

Thanks for considering this letter of support.

Carla Lidner Baum, DDS, MS
Bradley Baum, MD

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

From: Charles Morehead [REDACTED]
Sent: Saturday, March 19, 2022 11:14 PM
To: CEQA@ucr.edu
Subject: STEM High School

To Whom It May Concern,

My name is Charles Morehead and I am a teacher at the Riverside STEM Academy High School. It is my heartfelt hope that the school will one day be located on the UCR campus. The idea, and opportunity for education to evolve its ordinary confines, to open up and meet the larger world through its interaction and collaboration with a university campus, is one that I cherish. Please allow this very rare, and in my opinion very necessary..., endeavor to manifest.

Most sincerely,

Charles Morehead

From: Cheryl-Marie <[REDACTED]>
Sent: Thursday, March 17, 2022 6:59 PM
To: ceqa@ucr.edu
Cc: Cheryl-Marie Hansberger
Subject: Support of STEM School

Sir or Madam,

I am writing in support of the STEM school, a unique partnership between RUSD and UCR. The primary catalyst for my support stems from my eleven years leading an human resources team at a world renowned engineering and technology firm (Delcan, a Parsons company). In this role, I learned the importance of nurturing quality architects, engineers, environmental scientists, mathematicians, and software/IT professionals. Despite top salaries, we often needed to hire labor from other countries to fill our US roles, especially in California where it is increasingly hard to keep up with skyrocketing costs of living. In addition, we often required our technical employees to move around the country, leaving their families behind, to staff projects in California. This is not good for anybody when we have the opportunity to create our own workforce. Who will be our future CARB employees?

My family is a strong proponent of school choice and we applaud RUSD for their commitment to diverse educational programs. I live a few doors away from Castlevue elementary school and I appreciate that we have students that come from all over Riverside for the top-notch dual-language program. Often, we are impacted by school noise

and traffic as parents and caregivers frantically navigate a morning routine to drop kids off at Castleview and forget that they are in front of our homes or driveways. While at times we find some of the parents a bit inconsiderate, overall we realize that this is part of providing our children with a quality education. Simply stated, the inconvenience is a small price to pay to offer educational options that meet the needs of all of our local families and are also vital to building a future workforce.

RUSD's investment in school choice and specialized programs has also benefitted my own family. In middle school, my nephew attended the STEM school. As one of RUSD's top students, the STEM school was the perfect place to keep him engaged. For high-school, our family determined that his best educational option was the IB program at North. Both programs served him well and we were grateful that he was able to identify and enroll in a school that challenged him. His transition to Harvard University was greatly aided by the preparation he received in STEM and IB.

I find it disheartening, I might even call it manipulation, that much of the opposition to the STEM campus is framed as an equity issue around race or socio-economic status. STEM is open to all students in RUSD through a lottery system that favors economically disadvantaged students. I also find it disheartening that much of the opposition appears to be an argument that the campus pulls resources from other campuses, especially North High School. Couldn't the same argument be made about the IB program?

If we are going to take a policy position that we do not want specialized programs because we view them as elite, then we need to discontinue all specialized programs in the district (dual-language, IB, STEM, Vocational, etc.).

Tonight you will inevitably hear a lot of clutter. I would encourage you to stay focused, to see through the clutter, and to stay focused on the issue at hand. While the STEM school will have an impact on the local environment (like anything else UCR or RUSD develops), the benefits far exceed the impact or inconvenience. Our school district, UCR, and our community has invested a lot into this project, now is the time to show leadership not to bow out.

Let's do the right thing for our kids.

Kind Regards,
Cheryl-Marie Hansberger

From: Chris Lynch <[REDACTED]>
Sent: Tuesday, March 15, 2022 5:30 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

From:
Christopher Lynch,

[REDACTED]
[REDACTED]
[REDACTED]

To whom it may concern:

I am writing in support of the STEM High School and Education Center at UCR. I have visited the current STEM High School and met with the Principal. This school is highly ranked and provides a quality science and technology based secondary school education that prepares their students with a solid foundation for entering STEM disciplines in college. This is an important part of meeting the needs of the increasingly technology based job market in the region and in the state of California.

I cannot speak for the college of engineering, but do feel my personal views surrounding the positive impact the STEM High School and Education Center at UCR will have are well informed by my participation in Leadership Riverside where we recently spent time with high school principals and superintendents of schools as well as my position as dean of engineering at UCR. I am personally strongly in favor of this project and see many benefits to our community.

Sincerely,

Chris Lynch

From: Cindy Foster <[REDACTED]>
Sent: Thursday, March 17, 2022 5:08 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

Good Afternoon,

I am a parent of a fifth grader at Riverside Stem Academy.
I am in favor of the campus move to UCR.
What a great direction for advancing STEM within our community!

Cindy Foster
[REDACTED]
[REDACTED]

From: Collette Lee <[REDACTED]>
Sent: Friday, March 18, 2022 3:55 AM
To: CEQA@ucr.edu
Subject: Support of STEM

CEQA@ucr.edu

March 18, 2022

RE: Letter of Support of the STEM Project

Rarely do I take the time, while on vacation, to write a letter of support for a project in my community. I do this because this is incredibly important for the viability of our community and region. My background is a business owner in real estate and for over 30 years I have seen the many changes in the decisions to relocate to this area based upon several factors, a major one being schools. Excellent schools, high paying jobs, affordable housing are the main reasons people relocate and make the choice to live in a community. I have seen many professionals, academics and others choose other cities to live, due to primarily school rankings. Do these rankings tell the whole picture NO, but none the less they influence this decision that impacts our entire region from an economic impact to the unmeasurable impact of social capital loss. We are a poorer community, but Riverside residents have the reputation of community members filling voids in equity to improve the quality of lives for all.

Ever Since Tom Baldwin, past Dean of CNAS, and founder of the Science Circle, which my husband and I were founding members, brought this idea up, approx. 17 years ago, it was met with a positive response from many in the community. Subsequently, the baton has been passed to community leaders that recognize the importance of STEM education.

It has broad based support in the Real Estate Community. Due to the fact, it is a lottery system it would be equitable and fair. It would serve as a piece of the puzzle to show our community is forward thinking and has a focus on the Sciences, which we all know lead to thriving economies and successful students/citizens. The success the STEM academy has received after being in operation for only ten years is a testimony to the desire of parents to have this opportunity available for their children. The facts are the Riverside STEM Academy is ranked #1 in the Riverside Metropolitan area and all RUSD, and #4 in the entire state of California, out of 1,675 schools reviewed. It is ranked #62 in our nation. There is irrefutable evidence that it works and there is a demand!

Low-income and minority students need access to a high-quality education. Riverside STEM Academy and UCR (both public schools) provide families an even playing field and give children an opportunity for social mobility.

Riverside STEM Academy is the most diverse school in the entire district. Entry into the school is open to all students of RUSD, through a lottery system.

Let's focus on the future of our region and most of all what is best for our children to achieve, which is to have opportunities to be the best they can be with the resources that this program at UCR could offer.

WE wholeheartedly support this STEM Proposal in collaboration with UCR.

Sincerely,

Collette Lee/ Windermere Tower Properties

Gary Lee DDS

Collette Lee

Associate Broker

Windermere Tower Properties

7197 Brockton Avenue, Ste. 6

Riverside, CA 92506

O: 951.369.8002

C: 951.961.3667

F: 951.369.8059

License #01059705

From: David Bristow <[REDACTED]>
Sent: Friday, March 18, 2022 3:05 PM
To: CEQA@ucr.edu
Subject: The STEM Academy project

Dear Sir or Madame,

As a native of Riverside and the parent of three children currently attending schools in the Riverside Unified School District, I am writing in support of RUSD's STEM Academy school project proposed for the corner of Blaine and Canyon Crest in conjunction with the University of California, Riverside. I believe that this project will be transformative for the students of RUSD, and build on the tremendous success of the STEM program in RUSD. Siting the STEM school adjacent to UCR will provide a tremendous opportunity for RUSD students to be exposed to the facilities of a world-class research institution, and greatly enrich the experience of the STEM constituency. Building on the successful legacy of the current STEM program will provide an excellent educational opportunity for students and families in RUSD, as well provide an attractive benefit for families looking to relocate in the Riverside region. I cannot stress the depth of my support for this transformative project, which will benefit all of the RUSD community, particularly the historically under-served communities in the District.

I am happy to provide any additional comments or information upon request.

Thank you,

David Bristow

Riverside native and resident

Sent from [Mail](#) for Windows

From: Diane Kwasman <[REDACTED]>
Sent: Friday, March 18, 2022 12:52 PM
To: ceqa@ucr.edu
Subject: STEM High at UCR

I am the mom of a STEM Senior. Having a focused STEM high school in proximity to UCR will enable so many more of our Riverside students to excel in STEM fields - to advance in further education and thrive in stem careers - the most sought after careers. STEM is our future.

I know that traffic is a concern and I know that we are addressing that with adding busses, staggering schedules and other remedies.

Many feel that STEM curriculum should be offered in every RUSD high school. And it in fact is. There are also several other RUSD schools that excel in particular programs; North has its IB program, Ramona has Theater Arts, King with Engineering and Arlington's specialty is Pre-Med. Students are able to pursue their passion in such focused schools. We want a STEM school, with the synergy of UCR, for so many more students. We'll put Riverside on the map and attract increased commerce and notoriety.

A large part of the project to build the high school on the UCR campus is to broaden the reach of our ENTIRE district and community. Everyone interested will benefit from community out-reach, after school and summer STEM activities and programs. It's time that we put aside personal concerns and focus on what's really important here...the future of our students in the fastest growing career fields.

Thank You, Diane Kwasman

From: DONALD BLACKMAN <[REDACTED]>
Sent: Friday, March 18, 2022 1:05 PM
To: CEQA@ucr.edu
Subject: STEM Center at UCR

To Whom it may Concern,

1. After being in operation for only ten years, Riverside STEM Academy is ranked #1 in the Riverside Metropolitan area and all of RUSD, and #4 in the entire state of California, out of 1,675 schools reviewed. It is ranked #62 in our nation. This according to US News and World Report: [Riverside Stem Academy in Riverside, CA - US News Best High Schools](#). Low-income and minority students need access to a high-quality education. Riverside STEM Academy and UCR (both public schools) provide families an even playing field and give children an opportunity for social mobility.
2. Riverside STEM Academy is the most diverse school in the entire district. Entry into the school is open to all students of RUSD, through a lottery system carefully weighted in favor of economically disadvantaged families. Total minority enrollment is 66%, with 32% of students economically disadvantaged.

I support this important opportunity for our city and our region. Please see fit to allow the Riverside STEM Academy to go forward.

Sincerely,

Donald M. Blackman, M.D.
City of Riverside Resident
Riverside, California

UCR CEQA Commissioners/RUSD Board Members: Attn: Stephanie Tang

Public Comments by Gilberto Esquivel, reference notice of preparation of an environmental impact report in compliance with CEQA. For the proposed Riverside Unified School District(RUSD), proposed: STEM Educational Center.

Issue: Transportation/ Traffic

I live on Floral Avenue which runs parallel to Blaine Street. My daily traffic drive takes me through Blaine Street by the proposed site of UCR/RUSD STEM Educational Center. The number of vehicles using the same drive has increased three folds since I moved to my present address in 1994, the street remains the same, same narrow lanes, same stops and same traffic lights.

The number of students and student housing has greatly increased and the student and residential parking alongside the streets leaves no room for additional vehicles. The noise the pollution and hazardous traffic congestion is more than this area can handle. Students crossing Blaine at Canyon Crest are risking their lives every time they cross the street going to and from their apartments and UCR. More apartments are being built in the same area and many more students are expected to enroll in UCR.

Building another facility which will attract more traffic is not only senseless, it is extremely dangerous. I'm not against STEM Education, I'm against reckless and senseless planning that only hurts our residents and the students that it is supposed to serve. Please add my name to your public comments list.

Sincerely,

Gilberto Esquivel



Sincerely,

Gilberto Esquivel



From: Gordon Bourns <[REDACTED]>
Sent: Thursday, March 17, 2022 8:59 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

From: Gordon Bourns
Chairman and CEO, Bourns, Inc.
Chairman and President, Science and Technology Education Partnership
[REDACTED]
Mobile Phone: [REDACTED]
Email: [REDACTED]

Dear CEQA Board,

I am writing in support of building the STEM Center on the UC Riverside Campus. As Chairman and CEO of Bourns, Inc., I have devoted significant time and resources to encouraging Riverside students to pursue STEM careers, so hopefully they can one-day become Bourns employees and design products to serve our customers world-wide. I am pleased to say that Bourns has hired many UCR students, some of whom began as Bourns Interns and some of whom participated in tours of Bourns or UCR, where they became excited about careers in STEM.

In the summer of 2021, Bourns hired a first-generation college graduate, who had just earned a BS Degree in Chemical Engineering from UCR, to be the Applications Engineer for our Trimpot® Product Line, a key product line for Bourns. While attending University Heights Middle School, she toured Bourns and learned about STEM career opportunities at our company. This tour included seeing up-close how STEM is used to design, manufacture and test our products. The experience excited her and started her on a STEM career path. She will be joining me in April for visits to Riverside high schools to excite more students about careers in STEM. We will encourage them to participate in week-long STEM Summer Learning Lab programs that will include spending time on the UCR and Cal Baptist University campuses and working with college student mentors from UCR and CBU. The STEM Center at UCR would provide many more students extended time on the UCR campus, where they could gain hands-on experience related to STEM careers.

I have devoted significant time to advocating for the STEM Center at UCR, because having students participating in hands-on STEM education on the UCR Campus helps them see themselves as UCR students and excites them about the career opportunities that are available to them with a STEM degree. In my leadership role as Chairman and President of the Science and Technology Education Partnership (STEP), I look forward to the STEM Center at UCR being a hub for many STEM-related programs. For example, participants in STEP's STEM Summer Learning Labs from RUSD's middle schools and high schools learn about STEM careers in the Riverside Police and Fire Departments, Riverside Public Utilities and several local manufacturing companies. During each of the three weeks in July, teams of students gather information about these STEM careers from presenters in these jobs and the challenges they face in their jobs. In teams, the students then develop and present proposals for how STEM could make those jobs more effective and safer. I served as an advisor to Riverside Unified School District regarding the facilities that would be important for achieving the STEM Center's mission to provide excellent STEM education for our diverse RUSD students. From that experience, I know that the STEM Center facilities will work very well for the STEM Summer Learning Labs' programs, particularly the team collaboration that occur on Thursday of each week. And it will be perfect for each week's Design Challenge Competition on Friday, during which each team presents their STEM-focused Design Challenge Project Proposals to a panel of judges, which would take place in the STEM Center's Presentation Hall.

I urge a favorable recommendation of the CEQA Board in its report, because I believe UC Riverside and RUSD have taken into account all significant concerns of the community and all significant environmental issues in their proposed plans

for the STEM Center on the UCR campus. RUSD, UCR and our City of Riverside will benefit greatly from this much-needed investment in the STEM Center on the UCR Campus.

Best regards,
Gordon Bourns

From: Harkeerat Dhillon <[REDACTED]>
Sent: Thursday, March 17, 2022 11:30 PM
To: CEQA@ucr.edu
Subject: Stem Center at UCR

I wholeheartedly support the Stem Center at UCR - it needs to flourish and continue to provide this unique opportunity to our community.

Sincerely,

Harkeerat Singh Dhillon MD

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

From: [REDACTED]
Sent: Tuesday, March 15, 2022 12:15 PM
To: ceqa@ucr.edu; ccervantes@riversideca.gov
Subject: STEM Education Center EIR

Dear Ms. Teng:

As a supporter of the proposed STEM Education Center at UCR, I attended the meeting on March 9 to hear the arguments opposed and in favor of the project.

Having lived in large cities (New York City, San Francisco, Los Angeles, and Houston), I have seen residents of neighborhoods in all of those places express their opposition and disdain for new projects. While it is human nature to resist change, it is not realistic to expect everything to stay the same when our city's population is growing all the time. We have a responsibility to ensure that all children in RUSD are afforded the best possible education we can possibly give them. The STEM Education Center at UCR is an important step in that direction.

Riverside STEM Academy has proven itself year over year to be an example of excellence and egalitarianism, ranking #4 in our state out of 1,675 schools reviewed – after only 10 years in operation. Now we have a chance to build a larger center so that more of our students have access to this specialized school, through a weighted lottery that favors disadvantaged families who may not have such an opportunity otherwise. To further delay this project or scrap it entirely is to dash the hopes of some of our neediest kids.

Locating the STEM Education Center on the UCR campus is crucial. This gives high school students the ability to picture themselves as college students, and better prepares them for that transition. The location gives them access to college level learning and lab work. It can serve as a hub for school field trips, community events, and provide professional development for STEM instructors.

I love Riverside more than anywhere else that I have lived in this country; and I love the promise that our young people carry inside of them – to discover new technology, to be the researchers that cure diseases and solve global problems like climate change and world hunger. The STEM Education Center at UCR is an investment in these children, and that is something that everyone should be able to get behind.

Respectfully,

Heather Champagne
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

From: Holly Redfern <[REDACTED]>
Sent: Thursday, March 17, 2022 12:01 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

To Whom It May Concern:

The City of Riverside is called the "City of Arts and Innovation." RUSD's adoption of the STEM academy is a perfect example. This is one of the most important and successful innovation's in the city.

Out of 1,675 schools reviewed, RUSD's STEM Academy ranks 4th in the state of California . This is a prominent position to hold. The STEM program draws families to our region, thus boosting our economy and providing unprecedented diversity in today's world of education. Entry into the program is open to all Students of the RUSD community.

UCR shares the same philosophy towards diversity on its campus and in its classrooms. The two schools will form a perfect partnership. The location of the Academy on the UCR campus will open a world of education opportunities to all students, young and old; some of whom have never imagined a pathway to higher education. The opportunities of discovery and development are limitless with the location of the STEM Academy on the UCR campus.

I hope you will consider this a perfect partnership, each complementing the other, and I urge you to move for early approval of the EIR to make this location for the STEM Academy a reality.

Holly Redfern
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

From: Irving Hendrick <[REDACTED]>
Sent: Friday, March 18, 2022 4:01 PM
To: CEQA@ucr.edu
Subject: CEQA Education Center EIR

I am extremely pleased to endorse the location of the Riverside Stem Academy on the UCR Campus. Achieving this objective would mark 60 years of impressive collaboration between UCR faculty in the sciences and education with public schools and the regional community. Beginning in the early 1960s faculty work across the disciplines was instrumental in putting Riverside in the national forefront for achieving district-wide school desegregation of the community's racial and ethnic groups and demonstrating to the campus community the necessity of integrating the professional side of teacher education with the scholarly side of inquiry in the sciences. It is now well known that UCR and the public schools are dedicated to extending—and achieving—the benefits of scholarly scientific engagement among all ethnic and income groups. Most impressively, the Stem Academy's ten year record demonstrates its persistent dedication to this mission.

Irving G. Hendrick
Professor and Dean Emeritus
UCR School of Education

[REDACTED]

[REDACTED]

[REDACTED]

From: James Antoyan <[REDACTED]>
Sent: Wednesday, March 16, 2022 10:21 AM
To: CEQA@ucr.edu
Subject: STEM Center at UCR

Hello I am writing in support for the STEM Center at UCR. I was raised in Riverside and currently own a business here. I was the student who's parent couldn't afford an education for me. I worked hard and put myself through college at the USC business school. I moved back home to Riverside in 1991.

Because of my journey of putting myself through college, I am huge supporter of higher education and trying to keep our educated students from all colleges in the area to stay here in Riverside to support our economy and to raise our demographic of educated households.

With Riverside Stem being one the most diverse schools in the district ,with a minority enrollment of 66% and it being able to give our higher learners a place to feel challenged and accepted there is no better place for the STEM Academy to be placed than at our campus of UCR.

This will give students like me a chance to see a better future and show that college is obtainable. You can only achieve what you know is out there and are exposed to. I speak from experience having seen a better life through other peoples lives and places which allowed me to succeed in life.

Our area has an immediate need to prepare and produce an educated workforce and higher caliber jobs, which will come from higher learners in the area (Stem Academy).

I thoroughly support the STEM Center at UCR. It's about time we show students what the next level education looks like and show them a gateway to it.

Sincerely,

James Antoyan

James L. Antoyan CPM®, CCAM®

President

JLA | Real Estate Group

CA LIC. 01119792

T. 951-784-0999

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Corporate Office

3590 Central Ave Ste. #200 | Riverside, CA 92506

T. 951-784-0999 | F. 951-788-7984

james@jlareg.com

You talk we listen.

From: Jeannene Kelly <[REDACTED]>
Sent: Tuesday, March 15, 2022 4:52 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

I am writing in favor to the proposed STEM Center at UCR. In my almost 30 years living in Riverside, raising two daughters who attended Riverside Unified Schools, I can't imagine a better idea than putting our highly ranked Riverside STEM Academy on the UCR campus. Giving local children, from ALL backgrounds, the opportunity to study STEM subjects on a university campus, will expose them to higher education and will prepare them to participate in the STEM career growth that is anticipated in the Inland Empire.

Thank you for the opportunity to share my support.

Jeannene Johnson Kelly

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

From: **Jesse Valenzuela** <[REDACTED]>

Date: Thu, Mar 3, 2022 at 9:51 PM

Subject: STEM Center EIR Report

To: <gadame@riversideunified.org>, Mary Figueroa <[REDACTED]>, yolanda esquivel <[REDACTED]>

Dear Ms. Gaby Adame:

My name is Jesse Valenzuela, member of Eastside Think Tank and the LULA de Rivrsidr.

This will be my publi comment on the public comment for the March 9, Stem Cr high school.

THE STEM Center is moving aheaenterOd

With all the prepared documents. The Eastside Elementary Neighborhood school which has yet to even acquire all of the property needed. We are years the STEM is already entering the EIR!!!

He STEM Center is a major priority for the RUSD School District and the Eastside Elementary school district in a predominantly community of color is not. The Eastside children will continue to to be bused across town for their education.

Jesse Valenzuela

[REDACTED]

[REDACTED]

To Whom It May Concern:

I am writing this in hopes that we can soon move forward with the plans needed to fulfill the original goal for the Riverside STEM Academy.

High Technology High School – Lincroft, NJ

North Carolina School of Science and Mathematics – Durham, NC

Science and Engineering Magnet School (SEM) - Dallas, TX

Thomas Jefferson High School for Science and Technology - Alexandria, VA

Middlesex County Academy for Science, Mathematics and Engineering Technologies - Edison, NJ

Queens High School for the Sciences at York College - Jamaica, NY

The Academy for Mathematics, Science & Engineering - Rockaway, NJ

What do these few mentioned schools have in common? They are all selective STEM PUBLIC schools that provide students with an opportunity to pursue their passions in an environment that fosters growth in their area of interests, and from the looks of it, New Jersey is leading the charge. There are a number of other schools that are structured in the same way, but they are in the private school sector. By having this type of structure and programming as a part of a public-school district provides inclusive opportunities to students who otherwise could not afford it. There was some important research published in the International Journal of Education in Mathematics, Science and Technology under the title Modeling Successful STEM High Schools in the United States: An Ecology Framework. In this article, researchers categorized these schools with three types: (a) selective STEM schools (for example, Riverside STEM), (b) inclusive STEM schools, and (c) schools with STEM-focused career and technical education (CTE) much like what is found at Martin Luther King High School. Findings from the studies exploring college and career readiness of students attending these schools revealed students from specialized STEM schools are performing slightly better on high-stake mathematics and science tests in comparison with students in traditional schools. Studies also showed students from specialized STEM schools are more interested in STEM, more willing to attend classes, more likely to pass state tests, and more likely to earn college degrees. This is because it is a program that is hyper focused on not only student interests, but an entire staff who shares the same passions for STEM, and that makes a huge difference. In other words, teachers' attitudes toward teaching STEM make a huge impact on the quality of that programming.

Today, I want to admonish you to consider moving past the community division on this issue where schools are pitted against each other and simply move toward focusing on following through with a plan that will be beneficial to an entire school district. Hence, providing opportunities to children who would otherwise not have access to such an education that can begin to change the narratives surrounding who gets access to working in STEM careers in the future.

Thank you for your time.

Jessika Shields

From: John Field <[REDACTED]>
Sent: Thursday, March 17, 2022 12:17 AM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

To whom it may concern.

My wife and I would like to offer our strongest support to the approval of the Environmental Impact Report for the Riverside STEM Academy project proposal. Two of our children attended the STEM Academy when the school opened and even then, while the program was in its infancy, it was simply astounding. We have watched with great pride as the school's stature has risen to the top in the district, state and indeed, the nation. The opportunities afforded by the Riverside Stem Academy to students from every background are unmatched in this region. When coupled with the potential pathway of these exceptional students to UCR's numerous science, technology and engineering programs this proposal is an easy decision.

Again we are so happy to offer our strongest support for this community and educational asset.

Sincerely,

John and Trish Field
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Sent from my iPhone

From: [REDACTED]
Sent: Friday, March 18, 2022 2:04 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

My Name is Kelli Tyson Stockton and im writing in support of the STEM Education Center EIR. As a member and business owner of Riverside I want to be part of the community supporting this. Im here to help make it happen.

Thank You, Kelli

[REDACTED]
[REDACTED]
[REDACTED]

From: Kevin Dawson <[REDACTED]>
Sent: Friday, March 18, 2022 4:42 PM
To: Stephanie Tang
Cc: Gurumantra; Rich Davis; [REDACTED]
Subject: Comments to NOP - UCR/RUSD STEM

Comments to NOP - UCR/RUSD STEM

Stephanie Tang
University of California, Riverside
Campus Environmental Planner
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Ms. Tang,
Please include the follow comments as points to be included and studied in the EIR.

We are still in objection that the public meeting was held five miles away from the project site and the community which would be impacted. This choice was obviously designed to discourage public participation. The obvious correct location should have been North High school, which is only a couple blocks from the project site and well known to the community. Shame on UCR. Shame on your consultants who at the meeting, cynically said their goal was to improve public participation in the CEQA process.

1. The NOP notice failed to identify city owned property as part of the project site. Please discuss in-depth as to how those two pieces of property will be addressed.
2. Please include as part of the study of alternatives to the project, the air quality and green house gas impacts of the transportation and busing for the project as envisioned by RUSD vs No Project, or alternatively Expanding STEM instruction at existing RUSD High Schools instead of building a stand alone STEM School.
3. Please study the air quality and GHG impacts of having to transport students back to their home schools for instruction in classes and programs not offered at the project site due to space limitations, (such as sports and music programs).
4. Please study the impacts of removing high achieving students from the social and educational mix of their home High Schools, and the impact it will have intellectual vigor of those classrooms.
5. Please study the impacts of removing the parents of those high achieving students, as those parents are active advocates for the schools their students attend. This is evidenced in the historical record of how RUSD fiscal resources have inequitably been distributed to, for example, Poly or King, over less affluence schools such as North or Ramona. In fact, it is evidenced in looking at who the advocates are for the proposed STEM school.

Please note that the campus of the University of California, at Riverside, does not belong to the people of the city of Riverside or RUSD. UCR belongs to the people of the State of California, and as such, the resources and access should be reserved for those California students who have applied and accepted as students of the University of California. There

is a huge demand for slots at UC campuses and a shortage of supply, as evidenced by the recent lawsuits at the University of California, Berkeley.

Respectfully,

Kevin Dawson

UCR Alumni and Neighbor
RUSD past parent
University Neighborhood Association Co-chair.

██████████
██████████████████

Sent from my iPad

From: Kevin Kelly <[REDACTED]>
Sent: Tuesday, March 15, 2022 5:08 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

I am writing in favor to the proposed STEM Center at UCR. My wife and I have lived in Riverside for almost 30 years and both of our daughters attended Riverside Unified Schools. Having the STEM Center located on the UCR campus will provide a clear pipeline for students to move from High School to college. Being in such close proximity, students who may have never pictured themselves going to a University will have a greater understanding of the benefits of higher learning. In addition, I believe strongly that our region has an obligation to prepare and produce an educated workforce to meet future job demands, which will be heavily STEM-based.

Thank you for the opportunity to share my support.

Kevin Kelly
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Dear Ms. Tang,

I am writing in support of the plans to build the STEM High School and Education Center on the UCR Campus. As a parent of a current RSA student and a recent graduate of RSA, I know firsthand the benefits of a STEM education.

Building the new RSA High School on the UCR campus will provide a tremendous opportunity for the attending students. Giving our STEM High School students access to the many resources at UCR will transform their education from good to extraordinary and help them to imagine themselves as future college students. This is particularly important due to the diversity at the STEM High School – 40% of the attendees come from disadvantaged backgrounds. The school is a huge success story. By lottery admission it is 34% Latino, 30% white, and 7% African American. The current SAT scores average 1390 (Niche.com). RSA was recognized in 2018 as a Blue Ribbon School. The National Blue Ribbon Award is the highest award bestowed to schools by the U.S. Department of Education. They are one of only 12 public and private schools in California to be granted Blue Ribbon status in 2018 and one of only 349 schools nationwide. Also, we have an extraordinarily high graduation rate (90%) with 90% of our graduates going on to college, some as the first in their family to be able to do so.

I urge you to act now to move this forward. As you know, the planning process will take at least a year, and we stand to lose \$1.5 million in state grant funding that RUSD has already won to support this project – our district has already invested deeply. We have support from UCR leadership, the City of Riverside, and the Greater Riverside Chambers of Commerce— everything we need to make this vision a reality for our community.

Thank you for your time and consideration.

Sincerely,



Laura Merickel

From: Lawrence Geraty <[REDACTED]>
Sent: Tuesday, March 15, 2022 10:18 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

To Whom it may concern: As a member of Riverside's education community, I'm very much in support of the new UCR STEM Education Center. It has all the attributes of a much-needed education center for our area residents. You already have and know these attributes so there is no use rehearsing them here. Just know that knowledgeable citizens like me are watching and hoping you'll do the right thing!

Lawrence T. Geraty
President Emeritus
Executive Director, University Foundation



[REDACTED]
Phone: [REDACTED]
Cell: [REDACTED]
Fax: [REDACTED]

4500 Riverwalk Parkway | Riverside, CA 92505

From: Linda Scott Hendrick <[REDACTED]>
Sent: Friday, March 18, 2022 2:29 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

[REDACTED]
[REDACTED]
March 18, 2022

To: CEQA
Re.: STEM Education Center EIR

This letter is submitted to the CEQA process in support of locating the highly successful Riverside Unified School District (RUSD) STEM Academy on the University of California, Riverside, (UCR) campus.

I support the effort based on my earned Ph.D. in Curriculum and Instruction from UCR, and over thirty years of professional career experience at UCR as Teacher Supervisor, Research Educationist, Academic Administrator and Principal Investigator (P.I.) and author of more than \$12 million in federal and state education and research STEM grant awards for the UCR Graduate School of Education.

My broad and deep experience in STEM education on the UCR campus, across UCR's schools and faculties of science, engineering and mathematics, at the parental level and in the broader Riverside community, has proven the critical importance of accessible, excellent STEM education for the future success and well-being of our children, community and society at large. The location of the proven, acclaimed, RUSD STEM Academy on the UCR campus will provide and open these opportunities for our children and their families. We will all benefit for a greater good.

For four years, in addition to my role as P.I. for the 6-year \$11.5 million STEM education Copernicus Project at UCR in the Graduate School of education, (2004-2010), I directed the Las Alas Program on the UCR campus within the Graduate School of Education, for children grades 1-6 (2006-2010). The focus was on STEM education. Parents were engaged as classroom supervisors. UCR's undergraduate students were peer instructors. More than 50 students and their families across grade levels participated over the years. The need was great. Families took the opportunity to be on campus with pride, joy, appreciation and absolute commitment. As in the Copernicus Project, UCR faculty from the sciences and engineering schools and departments volunteered and engaged as mentors and resources. This is perhaps a sampling of what locating the RUSD STEM Academy on the UCR campus can further achieve.

Underscoring the importance of locating the RUSD STEM Academy on the UCR campus, many of the young Las Alas students and their families had never been on the UCR campus, or knew how to get to campus, before Las Alas began. None of these families lived more than 5 or 10 miles from campus. Some, less. Access to the UCR campus, its dedicated administration, faculty and staff, to excellent STEM education, tutoring and mentoring, and to the ideation and demonstration of a free, open, welcoming, continuous STEM education path, is more important now than ever.

Thank you for considering this letter of support for the RUSD STEM Academy location project on the UCR campus.

Sincerely,

Linda Scott Hendrick, Ph.D.
[REDACTED]
[REDACTED]

From: Maria Anguiano <[REDACTED]>
Sent: Thursday, March 17, 2022 11:39 AM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

Hello,
In my personal capacity, I would like to support the STEM Education Center at UCR.

Excellent school choices are one of the best tools for economic development because of their ability to attract businesses, academics, and high-earning industries to our community. Having the STEM Center located on the UCR campus would be great for the Riverside community, and specifically for the UCR community. Our region has an obligation to invest to prepare an educated workforce to meet future job demands, which will be heavily STEM-based. Low-income and students of color students need access to a high-quality education. Riverside STEM Academy and UCR (both public schools) provide families an even playing field and give children an opportunity for social mobility.

After being in operation for only ten years, Riverside STEM Academy is ranked #1 in the Riverside Metropolitan area and all of RUSD, and #4 in the entire state of California, out of 1,675 schools reviewed. It is ranked #62 in our nation. This according to US News and World Report: [Riverside Stem Academy in Riverside, CA - US News Best High Schools](#).

Maria Anguiano
(Personal Capacity)

From: maryjean comadena <[REDACTED]>
Sent: Friday, March 18, 2022 3:41 PM
To: CEQA@ucr.edu
Cc: Sue Johnson
Subject: UCR STEM Center

As an educator and native Riverside resident, it is with pleasure that I commend the Riverside STEM Academy for its important work for Riverside's student population and their families, especially low-income and minority students. As a CSUSB Lecturer I worked with economically disadvantaged students and families at the Watkins Literacy Center. This illustrated how important it is for students to have the opportunity to attend classes on a university campus. It raised the educational ceiling for them. They saw that higher education was a possibility for them. This is not only lifechanging for the students and their families but the community as well. For students to have this opportunity reflects the foresightedness of Riverside's educational system and business arena.

The fast growing Inland Empire needs to have a STEM-based workforce to meet future job demands and civic responsibilities. How fortunate and imperative to have the STEM Center at UCR.

Sincerely,

Mary Jean Comadena

Lecturer, Retired

Principal, Retired

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



From: Matthew Webb <[REDACTED]>
Sent: Monday, April 4, 2022 5:22 PM
To: CEQA@ucr.edu
Subject: STEM Center at UCR

Thank you for allowing me to comment regarding the proposed STEM academy. I would like to submit the following comments:

1. Riverside STEM Academy is the most diverse school in the entire district. Entry into the school is open to all students of RUSD, through a lottery system carefully weighted in favor of economically disadvantaged families. Total minority enrollment is 66%, with 32% of students economically disadvantaged. Having the STEM Center located on the UCR campus will provide a clear pipeline for these students from High School to College. Being in such close proximity, students who may have never pictured themselves going to a University will have a greater understanding of the benefits of higher learning.
2. Our region has an obligation to prepare and produce an educated workforce to meet future job demands, which will be heavily STEM-based.

Thank you for considering my input.

Sincerely,

Matthew E. Webb, PE | TE | LLS - President/CEO

Albert A. Webb Associates

3788 McCray Street, Riverside, CA 92506

t: [REDACTED]

e: [REDACTED] w: www.webbassociates.com

[LinkedIn](#) | [Twitter](#) | [Facebook](#) | [YouTube](#)



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From: Mel Clark Reznick <[REDACTED]>
Sent: Friday, March 18, 2022 4:28 PM
To: ceqa@ucr.edu
Subject: STEM Center EIR

March 18, 2022

Dear Ms. Tang,

As for the scope of the CEQA document, I can't imagine there will be many environmental issues with this highly urbanized piece of land. The only issues that I can envision, which occur with every project, are traffic and air pollution.

As for traffic and the associated air pollution, one advantage of having a high school on this site is that a high school can be flexible with mitigation measures. For example, a high school can set its own start time which can be adjusted to minimize the effect of traffic at peak traffic times. This would only be needed for the morning drop-off since school is out well before the afternoon rush hour.

Also, high schools can make excellent use of busing to bring students to the building. This is a highly efficient way to reduce traffic and also saves on air pollution since it greatly reduces the number of individual vehicle trips required to get each student to school.

I don't know that CEQA takes into account the fact that students need to go to school somewhere and so traffic and air pollution would be associated with whatever school they go to. And air pollution, of course, does not stay in one area but diffuses and affects the whole city.

In that regard it is noteworthy that RUSD is a District of Choice which means that students can choose to go to schools outside of their home area. In fact, many students do transfer to schools and programs that are not in their neighborhoods. In addition to the STEM Academy, students go to the Dual Language Immersion (DLI) programs, the Core Curriculum program at Bryant Elementary, the International Baccalaureate (IB) program at North High School, etc. I saw a statistic on the North High School IB site that as many as 25% of the students at North are transfer students. Thus it is not unusual for students to go to schools outside their neighborhoods such as would be the case for most students at the STEM Education Center.

There is one other potential issue that is specific to this site and that is the current use of the site as a recreation field. I often drive by this site and it is very rare that anyone is using it. Occasionally on Saturday mornings there is a pick-up soccer game on the site (and unclear if it is UCR students or others who are using the field and if it is officially sanctioned). I would say this is one of the most underutilized pieces of land at UCR.

Of course there is no such thing as a project that is without impacts, but then the question becomes more of a mitigation problem and finally, a cost benefit analysis. Thus, I would like to spend the rest of my comments on the benefits of having the STEM Education Center on the UCR campus.

In my opinion, there are several benefits to having this Education Center and high school on the UCR campus versus off campus. As you may know, the current STEM high school is about one mile away from the UCR campus but moving on to campus will radically change two factors: first the ability of people at UCR to volunteer at the high school and second the ability for students to imagine themselves as going to college.

As for volunteering, at the current location we do get some volunteers from UCR and when we do it is wonderful and impactful. However, as you can imagine, it's difficult to get people who are already very busy to walk a mile off campus, volunteer, and then walk a mile back – and it is no easier with driving when you figure in finding parking back at UCR. In contrast, having the high school integrated into the UCR campus means it will be a short walk through campus to volunteer. This will greatly facilitate the ability of STEM faculty, staff, post-docs, graduate students and undergraduate students to volunteer. It is this interaction that's key – that's what's special – not the fancy building.

My second point has to do with the power of physically being on a university campus. I heard a recent interview on local radio where they were discussing a study called "Inland Empire Teens and College: Student Perceptions, Plans and Obstacles" and the researcher, Dr. Olivares, said and I quote "Parents, or schools or even the colleges don't realize how important it is for teens to be able to physically be someplace in order to imagine themselves there." The STEM High School students on campus will definitely be able to imagine themselves as university students. And because the Center will also serve as a Hub for the district, students from all of our schools can have a chance, through field trips and summer programs, to be on a university campus and to imagine themselves going to college. This can be especially important for our kids who will be the first in their family to go to college.

I know there may be challenges to overcome for this project but there are huge benefits to being on campus.

Kind Regards,

Melody Clark, Ph.D.

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██████████
██████████████████████████████

From: Mike Downs <[REDACTED]>
Sent: Friday, March 18, 2022 12:53 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

To Whom it May Concern,

I am writing in support of the STEM High School and Education Center at UCR. Riverside STEM Academy plays a positive role not only for the students attending but for the community as a whole. The STEM High School and Education Center prepares younger students for the future demand of STEM-based jobs and can attract businesses in the same fields, boosting our local economy. Its location on the UCR campus provides the high school attendees a glimpse into their future at a university, which many low-income and minority students do not see as a viable opportunity. All of the aforementioned points ultimately produce an educated workforce and increased economic development for our community.

Thank you

Mike

Mike Downs

President



1095 Montecito Drive
Corona, CA 92879

Phone: [REDACTED]

downsenergy.com
fuelthecause.org



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From: Mike Marlatt <[REDACTED]>
Sent: Thursday, March 17, 2022 1:39 PM
To: CEQA@ucr.edu
Subject: Support for STEM Academy

Greetings -

Kindly accept this email as an expression of my support for the Riverside STEM Academy.

As an attorney representing educational institutions yours truly has the good fortune of observing the beneficial effects of a STEM education.

The STEM Academy had proven to be an outstanding program with substantial community support.

The STEM program is providing a gateway to college for the students in this diverse program.

It is respectfully submitted that the STEM Academy should continue to be fully supported given it's proven track record of success.

Thank you for your kind consideration -

Mike Marlatt

Sent from my iPhone

From: Goldware, Nicholas <[REDACTED]>
Sent: Monday, March 14, 2022 5:35 PM
To: CEQA@ucr.edu
Subject: STEM Education Center - Environmental Impact Report

I am writing in support of the STEM Education Center currently being reviewed as part of the Environmental Impact Report involved with the CEQA process. The location and development of this Center fits in exceptionally well with the overall UC Riverside Campus and will most certainly lead to many of the students in this program going on to further their education at UCR. Equally important, the principal infrastructure that is typically needed, in addition to the basic campus facilities that are planned, are already in place and work to enhance the educational opportunities for low income and minority students who make up 66% of current enrollment.

Existing investment in the STEM Education over the past 10 years has already proven it's value to the Riverside Unified School District and the students they serve. The Academy is ranked 62nd in the nation and 4th in the State of California for Best High Schools! The ability to maximize this exceptional performance and outstanding development of our youth, with special emphasis on economically disadvantage families moving forward is critical if our region is to prepare and produce an educated workforce to meet future job opportunities.

This is an important opportunity for our students, our City and our region and my hope is that this project will move forward!

Thank you for your consideration,

Nick Goldware

[REDACTED]
[REDACTED]
[REDACTED]

email – [REDACTED]

From: **Patricia Quiroz-Alfaro** <[REDACTED]>

Date: Wed, Feb 16, 2022 at 8:51 PM

Subject: Re: STEM Education Center Environmental Impact Report (EIR) Notice of Preparation (NOP)

To: Gaby Adame <gadame@riversideunified.org>

This turns my stomach. I can only imagine, and not a good image, what the traffic will be like on Blaine when STEM, North, Uni, Highland and the little Charter school on Rustin/Linden will be rushing to school at 7:45 am, not to mention people in line to get onto the freeway for work or R.C.C. We're not even talking about the parking situation where the COVID testing center is right now. This is all bad. All bad.

Patricia Alfaro

On Wed, Feb 16, 2022 at 10:35 AM Gaby Adame <gadame@riversideunified.org> wrote:

Good Morning,

Please see the attached and linked Notice of Preparation (NOP) for the proposed [STEM Education Center Project](#) Environmental Impact Report. The Project is proposed to be located at the Southwest corner of Blaine Street and Canyon Crest Drive, University of California, Riverside East Campus. UCR and RUSD will jointly hold a public scoping meeting on Wednesday, March 9, 2022 for the proposed STEM Education Center Project Environmental Impact Report (EIR). Please see the NOP for details on how and where to submit comments, and meeting details.

Respectfully,

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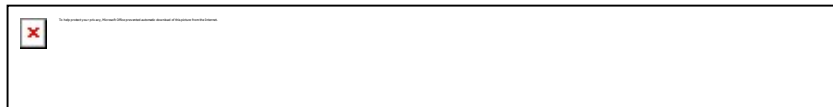
Gaby Adame

Assistant Director, Planning & Development

3070 Washington Street, Riverside, CA

Office: 951-788-7496 | Ext: 84708 | Cell: 909-331-6374

gadame@riversideunified.org | [Planning & Development Website](#)



--

From: Paul Foster <[REDACTED]>
Sent: Thursday, March 17, 2022 2:19 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

Good Afternoon,

I am a parent of a fifth grader at Riverside Stem Academy.
I am in favor of the campus move to UCR.
What a great direction for advancing STEM within our community!

Paul Foster
[REDACTED]
[REDACTED]

Those of us in the UCR community need to make it clear that there has been much opposition to this project being built in our neighborhood. At three in person community meetings held by UCR, hundreds of community members showed up to voice their objections. The fact that less are here tonight should not leave you with the impression that we are just a few disgruntled citizen. We felt that there are those better versed in the CEQA process who can speak on behalf of the community in identifying our issues tonight. As a community, we will be looking very closely at the process and will seek legal advice when reviewing your findings.

As a community these past couple of years, we have found time and time again information and details provided to us by UCR and RUSD that have been misleading and these institutions have chosen not to disclose to the public pertinent information that we feel will greatly impact and alter our community. For example, in UCR's mailing to the public about this meeting it clearly stated "it is expected to serve a capacity of approx. 800 students". However, from past publications by UCR and RUSD, they have clearly stated the school is for 800 full time and 400 part time students, a total of 1,200 students.

RUSD used to promote and take pride that this would be a high school on a UC campus, but with stiff opposition mounting it is now called a "Center". No matter what color lipstick you put on a pig, it is still a pig. This is a high school for 1,200 students.

So we ask, is your study going to be based on 800 students or 1,200 students? Will your study just look at bussing and parent provided transportation for 800 students with a traditional start and stop bell schedule or will you also address major issues with an additional 400 part time students coming and going throughout the day. Will you be addressing the need for student parking for 800 students or 1,200 students? Will you be addressing air quality for 800 students or 1,200 students commuting to and from this school? Will you be told that 300 of these students cannot be bussed to this school because they will be commuting from outside of RUSD, thus providing their own or parent transportation?

Will your study clearly address that dorms for 6,000 UCR students are being built with limited parking across the street from this school of 1,200 RUSD students and the only egress and ingress will be onto Blaine St.?

Let's be very clear here tonight, this site was rejected by RUSD because of the safety for high school students being in proximity of 6,000 student dorms. Shouldn't student safety still be a concern? Apparently not.

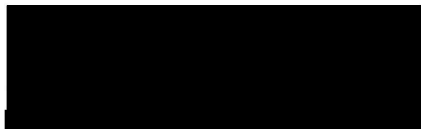
Now with other sites no longer in consideration, RUSD will be desperate that this site be approved regardless of cost, student safety, community impact and limitations placed on it because there is no other land available on campus for this size school.

As a community, we are very leery, and frankly don't trust the information and critical details that will be provided to you, or worse not provide to you by UCR and RUSD to adequately do this study. We will be very vigilant in every step of this CEQA process.

I am requesting that my name be added the public contact listing.

Thank you and submitted by

Richard Davis



From: [REDACTED]
Sent: Friday, March 18, 2022 5:16 PM
To: [REDACTED]
Cc: Stephanie Tang; [REDACTED]
Subject: Re: Comments to NOP - UCR/RUSD STEM

Nice, Kevin

----- Original Message -----

From: Kevin Dawson <[REDACTED]>

To: Stephanie Tang <stephanie.tang@ucr.edu>

Cc: Gurumantra <[REDACTED]>, Rich Davis <[REDACTED]>, [REDACTED]

Subject: Comments to NOP - UCR/RUSD STEM

Date: Fri, 18 Mar 2022 16:42:24 -0700

Comments to NOP - UCR/RUSD STEM

Stephanie Tang
University of California, Riverside
Campus Environmental Planner
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Ms. Tang,

Please include the follow comments as points to be included and studied in the EIR.

We are still in objection that the public meeting was held five miles away from the project site and the community which would be impacted. This choice was obviously designed to discourage public participation. The obvious correct location should have been North High school, which is only a couple blocks from the project site and well known to the community. Shame on UCR. Shame on your consultants who at the meeting, cynically said their goal was to improve public participation in the CEQA process.

1. The NOP notice failed to identify city owned property as part of the project site. Please discuss in-depth as to how those two pieces of property will be addressed.
2. Please include as part of the study of alternatives to the project, the air quality and green house gas impacts of the transportation and busing for the project as envisioned by RUSD vs No Project, or alternatively Expanding STEM instruction at existing RUSD High Schools instead of building a stand alone STEM School.
3. Please study the air quality and GHG impacts of having to transport students back to their home schools for instruction in classes and programs not offered at the project site due to space limitations, (such as sports and music programs).
4. Please study the impacts of removing high achieving students from the social and educational mix of their home High Schools, and the impact it will have intellectual vigor of those classrooms.
5. Please study the impacts of removing the parents of those high achieving students, as those parents are active advocates for the schools their students attend. This is evidenced in the historical record of how RUSD fiscal

resources have inequitably been distributed to, for example, Poly or King, over less affluence schools such as North or Ramona. In fact, it is evidenced in looking at who the advocates are for the proposed STEM school.

Please note that the campus of the University of California, at Riverside, does not belong to the people of the city of Riverside or RUSD. UCR belongs to the people of the State of California, and as such, the resources and access should be reserved for those California students who have applied and accepted as students of the University of California. There is a huge demand for slots at UC campuses and a shortage of supply, as evidenced by the recent lawsuits at the University of California, Berkeley.

Respectfully,

Kevin Dawson

UCR Alumni and Neighbor
RUSD past parent
University Neighborhood Association Co-chair.

██████████
████████████████████

Sent from my iPad

From: Stephanie Tang
Sent: Wednesday, March 9, 2022 9:38 AM
To: Roger Turner
Subject: RE: Request for information regarding the Notice of Preparation of the Environmental Impact Report for the Riverside Unified School District Science, Technology, Engineering and mathematics Education Center

Hi Roger,

It was nice talking to you over the phone last week. Please see below for responses to your questions in **red text**.

1. I would like to know who the Project Manager is and their contact information for this STEM Project.
 - a. **The UCR Real Estate PM for the STEM Project is Thomas Toepfer (thomas.toepfer@ucr.edu) and I am (stephanie.tang@ucr.edu) the UCR CEQA PM for the STEM Project. The RUSD PM is Gaby Adame (gadame@riversideunified.org).**
2. I would like a copy of the Initial Study prepared for this project.
 - a. **An Initial Study was not prepared for the proposed project. The University has determined that an EIR is the appropriate document for this project and we will identify and analyze any potentially significant impacts in the Draft EIR, which will be available for public review and comment.**
3. What is the process for approval of the Initial Study prepared by UCR staff or a consultant?
 - a. **Please see response above.**
4. Has a State Clearing House (SCH) number been issued for this project?
 - a. **SCH #: 2022020343**
5. Has UCR prepared a RFP for Consulting services to prepare the EIR for this project?
 - a. **The University sent out Request for Qualifications, interviewed various CEQA Consulting firms and ultimately selected Rincon to prepare the environmental document.**
6. What is the project schedule for preparation of the EIR?
 - a. **The Draft EIR public review and comment is anticipated for Fall 2022. The anticipated EIR schedule will be presented at the EIR Scoping Meeting on March 9, 2022.**
7. Why is UCR taking the role as Lead Agency? How was that decided since RUSD is going to construct and finance?
 - a. **UCR is acting as lead agency under CEQA because the Regents will be asked to certify an EIR and approve a ground lease to RUSD for the development and operation of the STEM Education Center, which will subsequently be considered for approval by RUSD in reliance on the certified EIR.**
8. Use of financing/public monies.
 - a. **Please click on the FAQs tab on RUSD's website for questions pertaining to funding: <http://stemedcenter.riversideunified.org/>**

Kind regards,

Stephanie Tang
Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

From: Stephanie Tang

Sent: Friday, February 25, 2022 9:19 AM

To: Roger Turner <[REDACTED]>; Leslie Rose <leslie.rose@ucr.edu>

Subject: RE: Request for information regarding the Notice of Preparation of the Environmental Impact Report for the Riverside Unified School District Science, Technology, Engineering and mathematics Education Center

Hi Roger,

I can give you a call on Monday (2/28) upon my return. What is your availability like for Monday? Is this your best contact #: [REDACTED]?

Cheers,

Stephanie Tang
Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

From: Roger Turner <[REDACTED]>

Sent: Thursday, February 24, 2022 3:28 PM

To: Leslie Rose <leslie.rose@ucr.edu>

Cc: Stephanie Tang <stephanie.tang@ucr.edu>

Subject: Re: Request for information regarding the Notice of Preparation of the Environmental Impact Report for the Riverside Unified School District Science, Technology, Engineering and mathematics Education Center

Leslie,

Thank you for your update. I'm looking forward to talking to Stephanie on Monday. Have a great weekend.

Best regards,

Roger Turner

On Thu, Feb 24, 2022, 2:05 PM Leslie Rose <leslie.rose@ucr.edu> wrote:

Hi Roger,

The person you need to speak with is Stephanie Tang. She is on vacation due back in the office on Monday. She will be in touch with you soon. Please call me if you have any questions or concerns.

Best,

Leslie

Leslie Rose

Executive Assistant to the Campus Architect/AVC



951.827.2433 leslie.rose@ucr.edu

From: Leslie Rose

Sent: Thursday, February 24, 2022 1:34 PM

To: Roger Turner <[REDACTED]>

Cc: Leslie Rose <leslie.rose@ucr.edu>

Subject: RE: Request for information regarding the Notice of Preparation of the Environmental Impact Report for the Riverside Unified School District Science, Technology, Engineering and mathematics Education Center

Importance: High

Hi Roger,

I didn't want you to think I forgot about this. Still working on this.

Thank you,

Leslie

Leslie Rose

Executive Assistant to the Campus Architect/AVC



951.827.2433 leslie.rose@ucr.edu

From: Roger Turner <[REDACTED]>

Sent: Wednesday, February 23, 2022 11:07 PM

To: Leslie Rose <leslie.rose@ucr.edu>

Subject: Request for information regarding the Notice of Preparation of the Environmental Impact Report for the Riverside Unified School District Science, Technology, Engineering and mathematics Education Center

Good morning Leslie,

Thank you for taking my call today. I have the following questions:

1. I would like to know who the Project Manager is and their contact information for this STEM Project.
2. I would like a copy of the Initial Study prepared for this project.
3. What is the process for approval of the Initial Study prepared by UCR staff or a consultant?
4. Has a State Clearing House (SCH) number been issued for this project?
5. Has UCR prepared a RFP for Consulting services to prepare the EIR for this project?
6. What is the project schedule for preparation of the EIR?

Thank you,

Roger Turner

Roger Turner and Associates, Inc.

[REDACTED]

[REDACTED]

From: Stan Morrison <[REDACTED]>
Sent: Wednesday, March 9, 2022 4:46 PM
To: Stephanie Tang
Subject: Re: MEETING TONIGHT.

Dear Ms. Tang,
Thanks for responding so quickly. You are a star!
"116" Stan Morrison

On Wed, Mar 9, 2022 at 3:45 PM Stephanie Tang <stephanie.tang@ucr.edu> wrote:

Hi Stan,

Thank you for your email. There will be opportunity for folks to provide verbal comments at tonight's STEM EIR Scoping Meeting.

I look forward to meeting you.

Cheers,

Stephanie Tang
Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PLANNING, DESIGN & CONSTRUCTION

1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507

951.827.1484 | <https://cpp.ucr.edu/>

From: Stan Morrison <[REDACTED]>
Sent: Wednesday, March 9, 2022 3:15 PM
To: cequa@ucr.edu; Stephanie Tang <stephanie.tang@ucr.edu>
Subject: MEETING TONIGHT.

Dear Ms. Tang,

My name is Stan Morrison and I was the Director of Intercollegiate Athletics at UC Riverside from 1999 - 2011. I just had a schedule change that frees me up to attend the Scoping Meeting this evening at Bryant Elementary School. I am requesting the opportunity to attend and possibly speak per your Notice of Preparation Environmental Impact Report. I have 50 years of experience in Intercollegiate Athletics as an athlete, coach and athletics director and fully grasp the academic mission and vision of institutions of higher Education including:

* UC Berkeley . . . 1956-1961, 1962-1963

* UC Santa Barbara . . . 1986-1989

* UC Riverside . . . 1999-2011

* University of the Pacific . . . 1972-1979

* University of Southern California . . . 1970-1972, 1979-1986

I am in complete support of this project. Please let me know if I can attend the meeting and possibly speak. Thank you most sincerely.

"116"

Stan Morrison

████████████████████

██

From: Stephen Smith <[REDACTED]>
Sent: Wednesday, March 16, 2022 7:54 PM
To: CEQA@UCR.edu
Subject: STEM Education Center EIR

15 Mar 22

I am a 78 year old retired Naval Officer. I moved to Riverside when I was 9 years old. I graduated from Poly High in 1962.

I am writing in support of locating the STEM high school at UCR.

Evaluating the pros and cons, I find many pros, and few cogent cons, most of which center around traffic problems – and the NIMBY crowd. The cold facts are that there will be an impact on traffic no matter where the STEM school is located - someone going to have to deal with it .

Supporting the STEM center at UCR is a no-brainer; they should be co- located. Winners should be with winners...

Thank you for your consideration...

Stephen E. Smith, LCDR, USN (ret.)

[REDACTED]
[REDACTED]
[REDACTED]

From: Virginia Blumenthal <[REDACTED]>
Sent: Friday, March 18, 2022 4:36 PM
To: CEQA@ucr.edu
Subject: STEM Education Center EIR

To Whom It May Concern:

I am thrilled and honored to write this email in very strong support of the STEM Center at UCR. I have long been an advocate of this Center in that it is truly needed and appreciated in our region. I find the growth and results of this Academy incredible and supportive of keeping, developing and growing it because it has only been in operation for ten years. The Riverside STEM Academy is ranked #1 in our area and fourth in the State of California. We have a high percentage of minority students along with low income students. This academy gives our community a chance to compete with others and utilize these opportunities we have not previously been offered.

Our educational institutions work exceptionally well with each other and keep the student progress as their number one concern. This is one reason why the STEM Academy has done so well in our area. Our community pulls together in support of the students and the vision for their future. This gives our community to attract businesses, high earning industries and other important products to our area. This significantly improves our economic basis. Our future work force will be very STEM-based and having our students here with this type of education will solidify our area in family growth, business growth and economic development. This Academy is significantly important to our area. The STEM Center needs to be maintained and grown.

Thank you for your consideration in this matter. Should you have any questions, please do not hesitate to call or contact me. My cell number is [REDACTED].

High regards,
Virginia Blumenthal

Virginia M. Blumenthal
President
Blumenthal Law Offices
3993 Market Street
Riverside, California 92501
(951) 682-5110

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WILLIAM H. GROVER
ASSOCIATE PROFESSOR, DEPARTMENT OF BIOENGINEERING
BOURNS COLLEGE OF ENGINEERING
UNIVERSITY OF CALIFORNIA, RIVERSIDE
219 MATERIALS SCIENCE AND ENGINEERING BUILDING
900 UNIVERSITY AVENUE
RIVERSIDE, CALIFORNIA 92521
(951) 827-4311 wgrover@engr.ucr.edu groverlab.org

Stephanie Tang
University of California, Riverside
Campus Environmental Planner
Planning, Design and Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Dear Ms. Tang,

I'm writing this letter to provide some brief input for the Environmental Impact Report for the proposed Riverside Unified School District STEM Education Center at UC Riverside. My comments are informed by my role as a professor of Bioengineering at UC Riverside and a parent of three children in RUSD schools, but these comments reflect my own opinions and not those of my employer.

I'll limit my comments to just three of the EIR categories: Land Use and Planning, Transportation, and Public Services.

Land Use and Planning: I drive past the proposed site for the STEM Education Center nearly every day, and I can probably count on one hand the number of times I've seen the field in use over the past year. In its current state, these six acres are providing very little of value to either the campus or the community. This shadeless field isn't conducive to recreational use, especially since far nicer recreational spaces are located nearby. The proposed STEM Education Center will convert an empty lot into a valuable community and university resource, a location where students from all across RUSD can learn cutting-edge science and engineering and picture themselves as University of California students. This empty lot has the potential to prepare *generations* of RUSD students for careers in STEM fields. And while open space does have value, in this case the community value of the STEM Education Center clearly outweighs the loss of a small empty lot.

Transportation: Some of the most vocal opponents of the STEM Education Center claim that the Center shouldn't be built because it might increase traffic congestion in the area. But these arguments neglect an important point: the proposed location for the STEM Education Center has *vastly* better transportation infrastructure than the current location of the Riverside STEM Academy high school. Anyone who has driven down Watkins Drive or Mt. Vernon Avenue during drop-off or pickup at the Riverside STEM Academy can attest to the impact of traffic on this residential neighborhood with no nearby public transit. In contrast, the proposed location for the STEM Education Center is served by at least *five* city bus routes within easy walking distance. By moving the STEM high school out of a residential neighborhood and allowing students to take existing public transit rather than driving, the STEM Education Center could actually *reduce* overall congestion and pollution in Riverside.

Public Services: *Both RUSD and UCR exist to educate and serve the public.* But aside from a few scattered projects, RUSD and UCR largely work separately. This is astonishing to me. RUSD has one of the campuses of the University of California—the premiere public university system in the nation—right in its hometown. The RUSD Board of Education should be seizing every opportunity to collaborate with UCR to better prepare our students for success. Surely any public school district in the state would jump at the opportunity to have a dedicated space for STEM education on a University of California campus. Any RUSD student who comes to the STEM Education Center will see themselves represented in UCR’s diverse student body and will realize that “college really is for me.” And UCR’s involvement in the STEM Education Center will create a pipeline for RUSD’s best and brightest students to choose UCR over our sister campuses. Additionally, our professors will have the opportunity to host outreach events and other activities at the Center, easily satisfying the societal “broader impacts” that are required by funding agencies like the National Science Foundation. In summary, *by combining our forces, RUSD and UCR can build an ecosystem for public service that will be the envy of the entire state and will have life-changing impacts on generations of Riverside students.* I can’t think of a more worthwhile public service than that.

Thank you for the opportunity to provide input for the STEM Education Center EIR,



William H. Grover

From: [REDACTED]
Sent: Wednesday, March 16, 2022 11:51 AM
To: CEQA@ucr.edu
Subject: STEM location at UCR

Hello: I am strongly in favor of locating the STEM center on the UICR campus. The Riverside STEM has an excellent reputation and has been rated NO. 1 school in Riverside area. They take underprivileged students and students with low-income availability. This diversity is to be praised. With the diverse student body some low-income families will be an entree to students going on to college and into a profession or job paying well above minimum wage. I highly recommend that STEM be located at UCR. Thank you for letting us comment.

Court Judge

William R. Bailey Jr. Ret. Superior

Date: March 9, 2022

Dear UCR CEQA Commissioners/RUSD Board Members: Attn: Stephanie Tang:

PUBLIC COMMENTS BY YOLANDA ESQUIVEL: REFERENCE NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT IN COMPLIANCE WITH CEQA: For the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center project (referred to as proposed STEM ED CENTER).

Time Extension of Community Input: Issue #1

Due to the extreme circumstances caused by COVID-19 and the inability for our community members in the surrounding areas of the University of California at Riverside to participate in public comments in reference to the EIR or the CEQA process for the STEM ED CENTER, we ask for an extension of 60 to 90 days. It is imperative that all of our communities are adequately notified and given the opportunity to express their concerns, especially the Latino Community who has suffered greatly for lack of the necessary technology.

Air Quality: Issue #2

My family and I oppose the STEM ED CENTER being built in our community because it would only greatly increase the pollution in the air. The air quality pollution here in the Inland Empire is already one of the highest in the state of California. This STEM ED CENTER would not only bring in more students and vehicles from different areas in our own city but also from surrounding cities. As members of this community we are already dealing with the horrendous air pollution being contributed by all the surrounding warehouses and now to deal with extra pollution due to a high school which is not needed due to the fact that we already have North High School in this area and the STEM ED CENTER should be incorporated into the campus of this school. We do not need the extra population and transportation vehicles which will only contribute to create an atmosphere prone to cancer, lung and many other deadly diseases for all of us who live and work in this University community. Please place me on your Public Comment list.

Thank you,

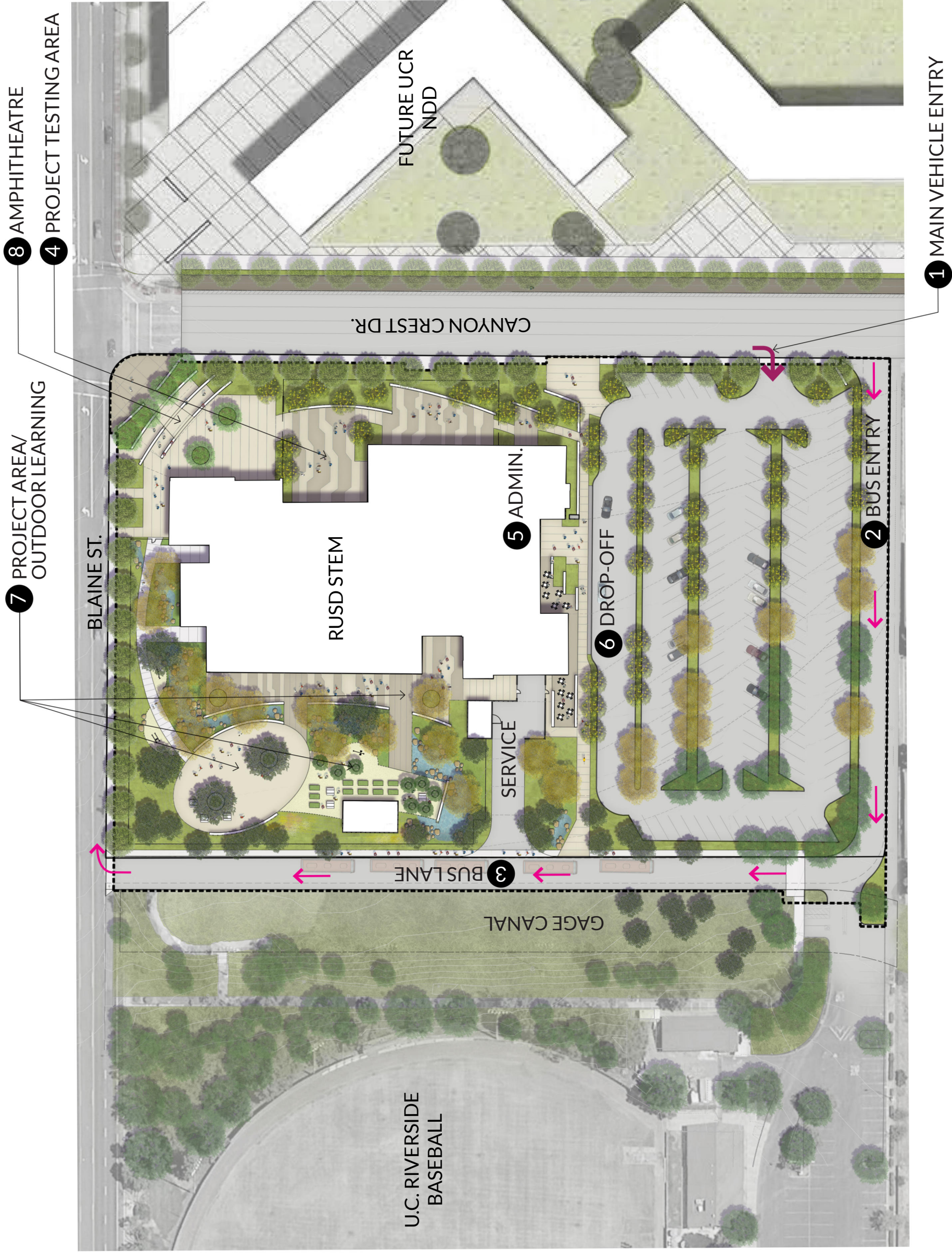
Yolanda Esquivel

██████████

██████████ ██████████

Appendix B

Project Site Plans



Appendix C

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UCR RUSD STEM School v2 Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	UCR RUSD STEM School v2
Construction Start Date	1/1/2026
Operational Year	2028
Lead Agency	UC Riverside
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	14.2
Location	33.9822422790931, -117.33230074187358
County	Riverside-South Coast
City	Riverside
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5490
EDFZ	11
Electric Utility	City of Riverside
Gas Utility	Southern California Gas
App Version	2022.1.1.13

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
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High School	80.0	1000sqft	5.91	80,000	51,400	51,400	—	—
Other Asphalt Surfaces	20.0	1000sqft	0.46	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	77.5	1000sqft	0.70	0.00	0.00	—	—	—
Parking Lot	153	Space	0.00	61,200	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.0	29.2	30.1	0.05	1.24	7.89	9.14	1.14	3.99	5.14	5,561
Mit.	17.0	29.2	30.1	0.05	1.24	7.89	9.14	1.14	3.99	5.14	5,561
% Reduced	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.21	29.2	29.8	0.05	1.24	7.89	9.14	1.14	3.99	5.14	5,541
Mit.	3.21	29.2	29.8	0.05	1.24	7.89	9.14	1.14	3.99	5.14	5,541
% Reduced	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—

Unmit.	2.38	10.8	13.4	0.02	0.43	1.41	1.84	0.39	0.56	0.95	2,844
Mit.	2.38	10.8	13.4	0.02	0.43	1.41	1.84	0.39	0.56	0.95	2,844
% Reduced	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.43	1.98	2.44	< 0.005	0.08	0.26	0.34	0.07	0.10	0.17	471
Mit.	0.43	1.98	2.44	< 0.005	0.08	0.26	0.34	0.07	0.10	0.17	471
% Reduced	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	3.22	29.2	30.1	0.05	1.24	7.89	9.14	1.14	3.99	5.14	5,561
2027	1.28	10.3	17.1	0.03	0.35	0.97	1.32	0.32	0.24	0.56	3,936
2028	17.0	6.71	10.8	0.01	0.26	0.20	0.46	0.24	0.05	0.28	1,748
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	3.21	29.2	29.8	0.05	1.24	7.89	9.14	1.14	3.99	5.14	5,541
2027	1.27	10.4	16.1	0.03	0.35	0.97	1.32	0.32	0.24	0.56	3,868
2028	1.22	9.87	15.9	0.03	0.31	0.97	1.28	0.29	0.24	0.52	3,839
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2026	1.25	10.8	13.4	0.02	0.43	1.41	1.84	0.39	0.56	0.95	2,844
2027	0.91	7.42	11.6	0.02	0.25	0.69	0.94	0.23	0.17	0.40	2,770
2028	2.38	2.52	4.10	0.01	0.08	0.20	0.28	0.08	0.05	0.12	866
Annual	—	—	—	—	—	—	—	—	—	—	—
2026	0.23	1.98	2.44	< 0.005	0.08	0.26	0.34	0.07	0.10	0.17	471
2027	0.17	1.35	2.12	< 0.005	0.05	0.13	0.17	0.04	0.03	0.07	459

2028	0.43	0.46	0.75	< 0.005	0.02	0.04	0.05	0.01	0.01	0.02	143
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2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	3.22	29.2	30.1	0.05	1.24	7.89	9.14	1.14	3.99	5.14	5,561
2027	1.28	10.3	17.1	0.03	0.35	0.97	1.32	0.32	0.24	0.56	3,936
2028	17.0	6.71	10.8	0.01	0.26	0.20	0.46	0.24	0.05	0.28	1,748
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	3.21	29.2	29.8	0.05	1.24	7.89	9.14	1.14	3.99	5.14	5,541
2027	1.27	10.4	16.1	0.03	0.35	0.97	1.32	0.32	0.24	0.56	3,868
2028	1.22	9.87	15.9	0.03	0.31	0.97	1.28	0.29	0.24	0.52	3,839
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2026	1.25	10.8	13.4	0.02	0.43	1.41	1.84	0.39	0.56	0.95	2,844
2027	0.91	7.42	11.6	0.02	0.25	0.69	0.94	0.23	0.17	0.40	2,770
2028	2.38	2.52	4.10	0.01	0.08	0.20	0.28	0.08	0.05	0.12	866
Annual	—	—	—	—	—	—	—	—	—	—	—
2026	0.23	1.98	2.44	< 0.005	0.08	0.26	0.34	0.07	0.10	0.17	471
2027	0.17	1.35	2.12	< 0.005	0.05	0.13	0.17	0.04	0.03	0.07	459
2028	0.43	0.46	0.75	< 0.005	0.02	0.04	0.05	0.01	0.01	0.02	143

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.10	5.69	48.5	0.12	0.12	4.21	4.33	0.12	0.75	0.86	14,605
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.64	6.06	41.9	0.12	0.12	4.21	4.33	0.12	0.75	0.86	13,845
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.89	4.71	32.4	0.09	0.10	3.14	3.24	0.10	0.56	0.65	10,962
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.26	0.86	5.91	0.02	0.02	0.57	0.59	0.02	0.10	0.12	1,815

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.14	5.18	48.1	0.12	0.08	4.21	4.29	0.08	0.75	0.83	12,456
Area	1.92	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	1,864
Water	—	—	—	—	—	—	—	—	—	—	88.2
Waste	—	—	—	—	—	—	—	—	—	—	196
Refrig.	—	—	—	—	—	—	—	—	—	—	0.31
Total	9.10	5.69	48.5	0.12	0.12	4.21	4.33	0.12	0.75	0.86	14,605
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.69	5.54	41.5	0.11	0.08	4.21	4.29	0.08	0.75	0.83	11,696
Area	1.92	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	1,864

Water	—	—	—	—	—	—	—	—	—	—	88.2
Waste	—	—	—	—	—	—	—	—	—	—	196
Refrig.	—	—	—	—	—	—	—	—	—	—	0.31
Total	8.64	6.06	41.9	0.12	0.12	4.21	4.33	0.12	0.75	0.86	13,845
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.94	4.20	32.0	0.08	0.06	3.14	3.20	0.06	0.56	0.62	8,813
Area	1.92	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	1,864
Water	—	—	—	—	—	—	—	—	—	—	88.2
Waste	—	—	—	—	—	—	—	—	—	—	196
Refrig.	—	—	—	—	—	—	—	—	—	—	0.31
Total	6.89	4.71	32.4	0.09	0.10	3.14	3.24	0.10	0.56	0.65	10,962
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.90	0.77	5.83	0.02	0.01	0.57	0.58	0.01	0.10	0.11	1,459
Area	0.35	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	309
Water	—	—	—	—	—	—	—	—	—	—	14.6
Waste	—	—	—	—	—	—	—	—	—	—	32.5
Refrig.	—	—	—	—	—	—	—	—	—	—	0.05
Total	1.26	0.86	5.91	0.02	0.02	0.57	0.59	0.02	0.10	0.12	1,815

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.14	5.18	48.1	0.12	0.08	4.21	4.29	0.08	0.75	0.83	12,456

Area	1.92	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	1,864
Water	—	—	—	—	—	—	—	—	—	—	88.2
Waste	—	—	—	—	—	—	—	—	—	—	196
Refrig.	—	—	—	—	—	—	—	—	—	—	0.31
Total	9.10	5.69	48.5	0.12	0.12	4.21	4.33	0.12	0.75	0.86	14,605
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.69	5.54	41.5	0.11	0.08	4.21	4.29	0.08	0.75	0.83	11,696
Area	1.92	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	1,864
Water	—	—	—	—	—	—	—	—	—	—	88.2
Waste	—	—	—	—	—	—	—	—	—	—	196
Refrig.	—	—	—	—	—	—	—	—	—	—	0.31
Total	8.64	6.06	41.9	0.12	0.12	4.21	4.33	0.12	0.75	0.86	13,845
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.94	4.20	32.0	0.08	0.06	3.14	3.20	0.06	0.56	0.62	8,813
Area	1.92	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	1,864
Water	—	—	—	—	—	—	—	—	—	—	88.2
Waste	—	—	—	—	—	—	—	—	—	—	196
Refrig.	—	—	—	—	—	—	—	—	—	—	0.31
Total	6.89	4.71	32.4	0.09	0.10	3.14	3.24	0.10	0.56	0.65	10,962
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.90	0.77	5.83	0.02	0.01	0.57	0.58	0.01	0.10	0.11	1,459
Area	0.35	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	309
Water	—	—	—	—	—	—	—	—	—	—	14.6

Waste	—	—	—	—	—	—	—	—	—	—	32.5
Refrig.	—	—	—	—	—	—	—	—	—	—	0.05
Total	1.26	0.86	5.91	0.02	0.02	0.57	0.59	0.02	0.10	0.12	1,815

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	3,438
Demolition	—	—	—	—	—	0.65	0.65	—	0.10	0.10	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	2.55	2.34	< 0.005	0.10	—	0.10	0.10	—	0.10	424
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.46	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	70.2
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	193
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.59	0.14	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	537
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	24.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	66.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.0

3.2. Demolition (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	3,438
Demolition	—	—	—	—	—	0.65	0.65	—	0.10	0.10	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.28	2.55	2.34	< 0.005	0.10	—	0.10	0.10	—	0.10	424
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.46	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	70.2
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	193
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.59	0.14	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	537
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	24.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	66.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.0

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	5,316
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	5,316
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	2.00	1.97	< 0.005	0.09	—	0.09	0.08	—	0.08	364
Dust From Material Movement	—	—	—	—	—	0.53	0.53	—	0.27	0.27	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.36	0.36	< 0.005	0.02	—	0.02	0.01	—	0.01	60.3
Dust From Material Movement	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	1.26	0.00	0.00	0.23	0.23	0.00	0.05	0.05	245
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	0.95	0.00	0.00	0.23	0.23	0.00	0.05	0.05	225
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.58
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	5,316

Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	5,316
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	2.00	1.97	< 0.005	0.09	—	0.09	0.08	—	0.08	364
Dust From Material Movement	—	—	—	—	—	0.53	0.53	—	0.27	0.27	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.36	0.36	< 0.005	0.02	—	0.02	0.01	—	0.01	60.3
Dust From Material Movement	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	1.26	0.00	0.00	0.23	0.23	0.00	0.05	0.05	245
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	0.95	0.00	0.00	0.23	0.23	0.00	0.05	0.05	225
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.58
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	15.0	17.4	0.03	0.65	—	0.65	0.59	—	0.59	2,970
Dust From Material Movement	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.20	1.85	2.15	< 0.005	0.08	—	0.08	0.07	—	0.07	366
Dust From Material Movement	—	—	—	—	—	0.34	0.34	—	0.16	0.16	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.34	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	60.6
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	1.08	0.00	0.00	0.20	0.20	0.00	0.05	0.05	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	24.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	15.0	17.4	0.03	0.65	—	0.65	0.59	—	0.59	2,970
Dust From Material Movement	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.85	2.15	< 0.005	0.08	—	0.08	0.07	—	0.07	366
Dust From Material Movement	—	—	—	—	—	0.34	0.34	—	0.16	0.16	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.34	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	60.6
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06	0.06	1.08	0.00	0.00	0.20	0.20	0.00	0.05	0.05	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	24.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.43	3.93	5.18	0.01	0.15	—	0.15	0.14	—	0.14	960
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.72	0.94	< 0.005	0.03	—	0.03	0.03	—	0.03	159
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.23	4.26	0.00	0.00	0.78	0.78	0.00	0.18	0.18	830
Vendor	0.01	0.74	0.23	0.01	0.01	0.20	0.21	0.01	0.05	0.07	731
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.26	3.23	0.00	0.00	0.78	0.78	0.00	0.18	0.18	761
Vendor	0.01	0.78	0.24	0.01	0.01	0.20	0.21	0.01	0.05	0.07	730
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.35	0.00	0.00	0.31	0.31	0.00	0.07	0.07	308
Vendor	0.01	0.31	0.09	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	291
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	51.0
Vendor	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	48.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	3.93	5.18	0.01	0.15	—	0.15	0.14	—	0.14	960
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.72	0.94	< 0.005	0.03	—	0.03	0.03	—	0.03	159
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.23	4.26	0.00	0.00	0.78	0.78	0.00	0.18	0.18	830
Vendor	0.01	0.74	0.23	0.01	0.01	0.20	0.21	0.01	0.05	0.07	731
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.26	3.23	0.00	0.00	0.78	0.78	0.00	0.18	0.18	761
Vendor	0.01	0.78	0.24	0.01	0.01	0.20	0.21	0.01	0.05	0.07	730

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.35	0.00	0.00	0.31	0.31	0.00	0.07	0.07	308
Vendor	0.01	0.31	0.09	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	291
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	51.0
Vendor	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	48.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	3.94	0.00	0.00	0.78	0.78	0.00	0.18	0.18	814
Vendor	0.01	0.72	0.22	0.01	0.01	0.20	0.21	0.01	0.05	0.07	717
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.23	2.98	0.00	0.00	0.78	0.78	0.00	0.18	0.18	747
Vendor	0.01	0.75	0.23	0.01	0.01	0.20	0.21	0.01	0.05	0.07	715
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.18	2.23	0.00	0.00	0.55	0.55	0.00	0.13	0.13	541
Vendor	0.01	0.53	0.16	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	511
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.41	0.00	0.00	0.10	0.10	0.00	0.02	0.02	89.6
Vendor	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	84.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	3.94	0.00	0.00	0.78	0.78	0.00	0.18	0.18	814
Vendor	0.01	0.72	0.22	0.01	0.01	0.20	0.21	0.01	0.05	0.07	717
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.23	2.98	0.00	0.00	0.78	0.78	0.00	0.18	0.18	747
Vendor	0.01	0.75	0.23	0.01	0.01	0.20	0.21	0.01	0.05	0.07	715
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.18	2.23	0.00	0.00	0.55	0.55	0.00	0.13	0.13	541
Vendor	0.01	0.53	0.16	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	511

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.41	0.00	0.00	0.10	0.10	0.00	0.02	0.02	89.6
Vendor	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	84.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.43	2.08	< 0.005	0.05	—	0.05	0.04	—	0.04	386
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	63.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.22	0.23	2.78	0.00	0.00	0.78	0.78	0.00	0.18	0.18	733
Vendor	0.01	0.71	0.22	0.01	0.01	0.20	0.21	0.01	0.05	0.07	700
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	119
Vendor	< 0.005	0.11	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	112
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	19.7
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	18.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.43	2.08	< 0.005	0.05	—	0.05	0.04	—	0.04	386
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.26	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	63.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.23	2.78	0.00	0.00	0.78	0.78	0.00	0.18	0.18	733
Vendor	0.01	0.71	0.22	0.01	0.01	0.20	0.21	0.01	0.05	0.07	700
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	119
Vendor	< 0.005	0.11	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	112
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	19.7
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	18.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.63	9.91	0.01	0.26	—	0.26	0.24	—	0.24	1,516
Paving	0.03	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.63	9.91	0.01	0.26	—	0.26	0.24	—	0.24	1,516	
Paving	0.03	—	—	—	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.08	0.82	1.22	< 0.005	0.03	—	0.03	0.03	—	0.03	187	
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.02	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	30.9	
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.06	0.05	0.93	0.00	0.00	0.20	0.20	0.00	0.05	0.05	202	
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	30.3	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.05	0.06	0.70	0.00	0.00	0.20	0.20	0.00	0.05	0.05	185	
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	30.2	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	23.2	

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.62
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.63	9.91	0.01	0.26	—	0.26	0.24	—	0.24	1,516
Paving	0.03	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.63	9.91	0.01	0.26	—	0.26	0.24	—	0.24	1,516
Paving	0.03	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.82	1.22	< 0.005	0.03	—	0.03	0.03	—	0.03	187
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	30.9
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.93	0.00	0.00	0.20	0.20	0.00	0.05	0.05	202
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	30.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.06	0.70	0.00	0.00	0.20	0.20	0.00	0.05	0.05	185
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	30.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	23.2
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.62
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	134
Architectural Coatings	16.8	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.5
Architectural Coatings	2.07	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.73
Architectural Coatings	0.38	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.73	0.00	0.00	0.16	0.16	0.00	0.04	0.04	160
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	18.3

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	134
Architectural Coatings	16.8	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.5
Architectural Coatings	2.07	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.73

Architectural Coatings	0.38	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.73	0.00	0.00	0.16	0.16	0.00	0.04	0.04	160
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	18.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

High School	7.14	5.18	48.1	0.12	0.08	4.21	4.29	0.08	0.75	0.83	12,456
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.14	5.18	48.1	0.12	0.08	4.21	4.29	0.08	0.75	0.83	12,456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	6.69	5.54	41.5	0.11	0.08	4.21	4.29	0.08	0.75	0.83	11,696
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.69	5.54	41.5	0.11	0.08	4.21	4.29	0.08	0.75	0.83	11,696
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	0.90	0.77	5.83	0.02	0.01	0.57	0.58	0.01	0.10	0.11	1,459
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.90	0.77	5.83	0.02	0.01	0.57	0.58	0.01	0.10	0.11	1,459

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	7.14	5.18	48.1	0.12	0.08	4.21	4.29	0.08	0.75	0.83	12,456
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.14	5.18	48.1	0.12	0.08	4.21	4.29	0.08	0.75	0.83	12,456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	6.69	5.54	41.5	0.11	0.08	4.21	4.29	0.08	0.75	0.83	11,696
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.69	5.54	41.5	0.11	0.08	4.21	4.29	0.08	0.75	0.83	11,696
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	0.90	0.77	5.83	0.02	0.01	0.57	0.58	0.01	0.10	0.11	1,459
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.90	0.77	5.83	0.02	0.01	0.57	0.58	0.01	0.10	0.11	1,459

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	1,248
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,248
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	1,248
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,248
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	207
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	207
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4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	1,248
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,248
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	1,248
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,248
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	207
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	207

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	616
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	616
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	616
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	616
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	616
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	616
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	616
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.51	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	616

Annual	—	—	—	—	—	—	—	—	—	—	—
High School	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.72	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.21	—	—	—	—	—	—	—	—	—	—
Total	1.92	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.72	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.21	—	—	—	—	—	—	—	—	—	—
Total	1.92	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	0.31	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Total	0.35	—	—	—	—	—	—	—	—	—	—

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.72	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.21	—	—	—	—	—	—	—	—	—	—
Total	1.92	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.72	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.21	—	—	—	—	—	—	—	—	—	—
Total	1.92	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.31	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Total	0.35	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	88.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	88.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	88.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	88.2
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	14.6
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	14.6

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	88.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	88.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	88.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	88.2
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	14.6

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	14.6

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	196
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	196
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	196
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	196
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	32.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	32.5

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	196
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	196
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	196
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	196
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	32.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	32.5

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	0.31
Total	—	—	—	—	—	—	—	—	—	—	0.31
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	0.31
Total	—	—	—	—	—	—	—	—	—	—	0.31
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	0.05

Total	—	—	—	—	—	—	—	—	—	—	0.05
-------	---	---	---	---	---	---	---	---	---	---	------

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	0.31
Total	—	—	—	—	—	—	—	—	—	—	0.31
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	0.31
Total	—	—	—	—	—	—	—	—	—	—	0.31
Annual	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	0.05
Total	—	—	—	—	—	—	—	—	—	—	0.05

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2026	3/4/2026	5.00	45.0	—
Site Preparation	Site Preparation	3/5/2026	4/8/2026	5.00	25.0	—
Grading	Grading	4/9/2026	6/10/2026	5.00	45.0	—
Building Construction	Building Construction	6/11/2026	3/22/2028	5.00	465	—
Paving	Paving	3/23/2028	5/24/2028	5.00	45.0	—
Architectural Coating	Architectural Coating	5/25/2028	7/26/2028	5.00	45.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37

Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	7.56	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT

Site Preparation	Hauling	0.00	21.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	59.3	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	23.1	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	1.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	11.9	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2

Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	7.56	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	21.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	59.3	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	23.1	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	1.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	11.9	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT

Architectural Coating	Onsite truck	0.00	—	HHDT
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5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	120,000	40,000	3,030

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	29,500	—
Site Preparation	0.00	0.00	37.5	0.00	—
Grading	0.00	0.00	45.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.46

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
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High School	0.00	0%
Other Asphalt Surfaces	0.46	100%
Other Non-Asphalt Surfaces	0.00	0%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	873	0.03	< 0.005
2027	0.00	873	0.03	< 0.005
2028	0.00	873	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
High School	2,064	318	137	561,850	15,164	2,339	1,005	4,127,853
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
High School	2,064	318	137	561,850	15,164	2,339	1,005	4,127,853
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	120,000	40,000	3,030

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
High School	520,646	873	0.0330	0.0040	1,915,235
Other Asphalt Surfaces	0.00	873	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	873	0.0330	0.0040	0.00
Parking Lot	0.00	873	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
High School	520,646	873	0.0330	0.0040	1,915,235
Other Asphalt Surfaces	0.00	873	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	873	0.0330	0.0040	0.00
Parking Lot	0.00	873	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
High School	2,656,371	1,811,075
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
High School	2,656,371	1,811,075
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
High School	104	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
High School	104	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Land Use	Cell tower pad modeled as non-asphalt and added to non-asphalt land use onsite. Electrical modeled as other asphalt surface. 2,000 LF x 10 ft wide. Landscaping assuming to be 20% of school site + associated improvements area (0.7 acre).
Construction: Construction Phases	Phase lengths adjusted to reflect 32 month construction schedule per RUSD.
Construction: Trips and VMT	Retained trips as defaults.
Operations: Vehicle Data	Trip gen per Traffic Memo. Trip length adjusted to reflect Traffic Study Daily Schoolday VMT of 15,164 and 260 schooldays. Default trip rates used for weekend
Construction: Paving	Other Non-Asphalt would not be paved.

UCR RUSD STEM School

Last Updated: 5/24/23

Compression-Ignition Engine Brake-Specific Fuel Consumption (BSFC) Factors [1]:

HP: 0 to 100	0.0588	HP: Greater than 100	0.0529
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Values above are expressed in gallons per horsepower-hour/BSFC.

CONSTRUCTION EQUIPMENT						
Construction Equipment	#	Hours per		Load Factor	Construction Phase	Fuel Used (gallons)
		Day	Horsepower			
Concrete/Industrial Saws	1	8	33	0.73	Demolition Phase	510
Excavators	3	8	36	0.38	Demolition Phase	868
Rubber Tired Dozers	2	8	367	0.4	Demolition Phase	5,587
Rubber Tired Dozers	3	8	367	0.4	Site Preparation Phase	4,656
Tractors/Loaders/Backhoes	4	8	84	0.37	Site Preparation Phase	1,461
Graders	1	8	148	0.41	Grading Phase	1,155
Excavators	1	8	36	0.38	Grading Phase	289
Rubber Tired Dozers	1	8	367	0.4	Grading Phase	2,793
Tractors/Loaders/Backhoes	3	8	84	0.37	Grading Phase	1,973
Cranes	1	7	367	0.29	Building Construction Phase	18,312
Forklifts	3	8	82	0.2	Building Construction Phase	10,755
Generator Sets	1	8	14	0.74	Building Construction Phase	2,265
Tractors/Loaders/Backhoes	3	7	84	0.37	Building Construction Phase	17,835
Welders	1	8	46	0.45	Building Construction Phase	4,525
Air Compressors	1	6	37	0.48	Architectural Coating Phase	282
Pavers	2	8	81	0.42	Paving Phase	1,439
Paving Equipment	2	8	89	0.36	Paving Phase	1,356
Rollers	2	8	36	0.38	Paving Phase	579
Total Fuel Used						76,639
						(Gallons)

Construction Phase	Days of Operation
Demolition Phase	45
Site Preparation Phase	25
Grading Phase	45
Building Construction Phase	465
Paving Phase	45
Architectural Coating Phase	45
Total Days	670

WORKER TRIPS				
Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Demolition Phase	24.1	15	18.5	518.15
Site Preparation Phase	24.1	18	18.5	335.84
Grading Phase	24.1	15	18.5	518.15
Building Construction Phase	24.1	59	18.5	21167.15
Paving Phase	24.1	15	18.5	518.15
Architectural Coating Phase	24.1	12	18.5	411.07
Fuel				23,468.52

HAULING AND VENDOR TRIPS

Trip Class	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
HAULING TRIPS				
Demolition Phase	7.5	8	20.0	907.20
Site Preparation Phase	7.5	0	20.0	0.00
Grading Phase	7.5	0	20.0	0.00
Building Construction Phase	7.5	0	20.0	0.00
Paving Phase	7.5	0	20.0	0.00
Architectural Coating Phase	7.5	0	20.0	0.00
Fuel				907.20
VENDOR TRIPS				
Demolition Phase	7.5	0	10.2	0.00
Site Preparation Phase	7.5	0	10.2	0.00
Grading Phase	7.5	0	10.2	0.00
Building Construction Phase	7.5	23	10.2	14608.44
Paving Phase	7.5	1	10.2	61.20
Architectural Coating Phase	7.5	0	10.2	0.00
Fuel				14,669.64

Total Gasoline Consumption (gallons)	23,469
Total Diesel Consumption (gallons)	92,216

Sources:

[1] United States Environmental Protection Agency. 2021. *Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES3.0.2*. September. Available at: <https://www.epa.gov/system/files/documents/2021-08/420r21021.pdf>.

[2] United States Department of Transportation, Bureau of Transportation Statistics. 2021. *National Transportation Statistics*. Available at: <https://www.bts.gov/topics/national-transportation-statistics>.

UCR RUSD STEM School

Last Updated: 3/15/2023

Populate one of the following tables (Leave the other blank):

Annual VMT	OR	Daily Vehicle Trips
Annual VMT: 4,127,853		Daily Vehicle Trips: Average Trip Distance:

Fleet Class	Fleet Mix	Fuel Economy (MPG) [1]	
Light Duty Auto (LDA)	0.494962	Passenger Vehicles	24.1
Light Duty Truck 1 (LDT1)	0.036104	Light-Med Duty Trucks	17.6
Light Duty Truck 2 (LDT2)	0.211994	Heavy Trucks/Other	7.5
Medium Duty Vehicle (MDV)	0.155928	Motorcycles	44
Light Heavy Duty 1 (LHD1)	0.023810		
Light Heavy Duty 2 (LHD2)	0.008699		
Medium Heavy Duty (MHD)	0.015092		
Heavy Heavy Duty (HHD)	0.016650		
Other Bus (OBUS)	0.000583		
Urban Bus (UBUS)	0.000380		
Motorcycle (MCY)	0.022509		
School Bus (SBUS)	0.001328		
Motorhome (MH)	0.005384		

Fleet Mix					
Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Passenger Vehicles	49.50%	<i>Gasoline</i>	2,043,131	0.00	84,777
Light-Medium Duty Trucks	40.40%	<i>Gasoline</i>	1,667,760	0.00	94,759
Heavy Trucks/Other	7.19%	<i>Diesel</i>	296,897	0.00	39,586
Motorcycle	2.25%	<i>Gasoline</i>	92,914	0.00	2,112

Total Gasoline Consumption (gallons)	181,648
Total Diesel Consumption (gallons)	39,586

Sources:

[1] United States Department of Transportation, Bureau of Transportation Statistics. 2021. National Transportation Statistics. Available at: <https://www.bts.gov/topics/national-transportation-statistics>.

Appendix D

Special-Status Species in the Regional Vicinity of the Project Area

Special-Status Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Plants and Lichens				
<i>Abronia villosa</i> var. <i>aurita</i> chaparral sand- verbena	None/None G5T2?/S2 1B.1	Annual herb. Blooms January-Sept. Occurs in chaparral, coastal scrub. Sandy areas of the South Coast and Sonoran Desert Floristic Provinces. 80 to 1600 meters (260 to 5,250 feet).	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Allium marvinii</i> Yucaipa onion	None/None G1/S1 1B.2	Chaparral. In openings on clay soils. 760 to 1,065 meters. Blooms April to May.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Allium munzii</i> Munz's onion	FE/ST G1/S1 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Pinyon and juniper woodland, Valley and foothill grassland. Clay, Mesic 297 to 1,070 meters. Blooms March to May.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Ambrosia pumila</i> San Diego ambrosia	FE/None G1/S1 1B.1	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools. Alkaline (sometimes), Clay (sometimes), Disturbed areas (often), Sandy (sometimes) 20 to 415 meters. Blooms April to October.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Arenaria paludicola</i> marsh sandwort	FE/SE G1/S1 1B.1	Occurs in sandy substrates and openings within freshwater or brackish marshes and swamps. This species blooms between May and August, and typically occurs at elevations ranging from 3 to 170 meters.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Astragalus hornii</i> var. <i>hornii</i> Horn's milk-vetch	None/None GUT1/S1 1B.1	Meadows and seeps, Playas. Alkaline, Lake Margins 60 to 850 meters. Blooms May to October.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Atriplex coronata</i> var. <i>notatior</i> San Jacinto Valley crownscale	FE/None G4T1/S1 1B.1	Playas, Valley and foothill grassland, Vernal pools. Alkaline 139 to 500 meters. Blooms April to August.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

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Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Atriplex parishii</i> Parish's brittlescale	None/None G1G2/S1 1B.1	Chenopod scrub, Playas, Vernal pools. Alkaline. 25 to 1,900 meters. Blooms June to October.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Atriplex serenana</i> var. <i>davidsonii</i> Davidson's saltscale	None/None G5T1/S1 1B.2	Annual herb. Blooms April to October. Coastal bluff scrub, coastal scrub. Alkaline soil. 3 to 250 meters (10 to 820 feet).	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Berberis nevinii</i> Nevin's barberry	FE/SE G1/S1 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub. Gravelly (sometimes), Sandy (sometimes) 70 to 825 meters. Blooms (February)March to June.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Brodiaea filifolia</i> thread-leaved brodiaea	FT/SE G2/S2 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Playas, Valley and foothill grassland, Vernal pools. Clay (often) 25 to 1,120 meters. Blooms March to June.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Calochortus plummerae</i> Plummer's mariposa-lily	None/None G4/S4 4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland. Granitic, Rocky 100 to 1,700 meters. Blooms May to July.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Carex comosa</i> bristly sedge	None/None G5/S2 2B.1	Coastal prairie, marshes and swamps, Valley and foothill grassland. Lake margins, wet places; site below sea level is on a Delta island. Below 0 to 625 meters. Blooms May to Sep.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Caulanthus simulans</i> Payson's jewelflower	None/None G4/S4 4.2	Chaparral, Coastal scrub. Granitic, Sandy 90 to 2,200 meters. Blooms (February)March to May(June).	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Centromadia pungens</i> ssp. <i>laevis</i> smooth tarplant	None/None G3G4T2/S2 1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland. Alkaline. 0 to 640 meters. Blooms April to September.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Special-Status Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Chloropyron maritimum</i> ssp. <i>maritimum</i> salt marsh bird's- beak	FE/SE G4?T1/S1 1B.2	Occurs in coastal dunes and coastal salt marshes and swamps. This species blooms between May and October, and typically occurs at elevations ranging from 0 to 30 meters.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Chorizanthe parryi</i> var. <i>parryi</i> Parry's spineflower	None/None G3T2/S2 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland. Dry slopes and flats; sometimes at interface of two vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 275 to 1,220 meters. Blooms April to June.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Chorizanthe polygonoides</i> var. <i>longispina</i> long-spined spineflower	None/None G5T3/S3 1B.2	Chaparral, Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools. Gabbroic clay. 30 to 1,530 meters. Blooms April to July.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i> Peruvian dodder	None/None G5T4?/SH 2B.2	Marshes and swamps. Freshwater marsh. 15 to 280 meters. Blooms July to October.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Dodecahema leptoceras</i> slender-horned spineflower	FE/SE G1/S1 1B.1	Chaparral, Cismontane woodland, Coastal scrub. Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200 to 760 meters. Blooms April to June.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Dudleya multicaulis</i> many-stemmed dudleya	None/None G2/S2 1B.2	Chaparral, Coastal scrub, Valley and foothill grassland. In heavy, often clayey soils or grassy slopes. 15 to 790 meters. Blooms April to July.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Eriastrum densifolium</i> ssp. <i>sanctorum</i> Santa Ana River woolystar	FE/SE G4T1/S1 1B.1	Chaparral, Coastal scrub. In sandy soils on river floodplains or terraced fluvial deposits. 91 to 610 meters. Blooms April to September.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Galium californicum</i> ssp. <i>primum</i> Alvin Meadow bedstraw	None/None G5T2/S2 1B.2	Chaparral, Lower montane coniferous forest. Grows in shade of trees and shrubs at the lower edge of the pine belt, in pine forest-chaparral ecotone. Granitic, sandy soils. 1,350 to 1,700 meters. Blooms May to July.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

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Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Harpagonella palmeri</i> Palmer's grapplinghook	None/None G4/S3 4.2	Chaparral, Coastal scrub, Valley and foothill grassland. Clay soils; open grassy areas within shrubland. 20 to 955 meters. Blooms March to May.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Helianthus nuttallii</i> ssp. <i>parishii</i> Los Angeles sunflower	None/None G5TX/SX 1A	Marshes and swamps. 10 to 1,525m. Blooms August to October.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Horkelia cuneata</i> var. <i>puberula</i> mesa horkelia	None/None G4T1/S1 1B.1	Perennial herb. Blooms February to September. Chaparral, cismontane woodland, coastal scrub. Sandy or gravelly sites. 70 to 810 meters (230 to 2655 feet).	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Imperata brevifolia</i> California satintail	None/None G4/S3 2B.1	Chaparral, Coastal scrub, Meadows and seeps, Mojavean desert scrub, Riparian scrub. Mesic sites, alkali seeps, riparian areas. 0 to 1,215 meters. Blooms September to May.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i> Coulter's goldfields	None/None G4T2/S2 1B.1	Annual herb. Blooms February to June. Coastal salt marshes, playas, valley and foothill grassland, vernal pools. Usually found on alkaline soils in playas, sinks, and grasslands. 1 to 1,400 meters (3 to 4,595 feet).	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Lepidium virginicum</i> var. <i>robinsonii</i> Robinson's pepper-grass	None/None G5T3/S3 4.3	Chaparral, Coastal scrub. Dry soils, shrubland. 1 to 885 meters. Blooms January to July.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Lycium parishii</i> Parish's desert-thorn	None/None G4/S1 2B.3	Coastal scrub, Sonoran desert scrub. –135 to 1,000 meters. Blooms March to April.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Malacothamnus parishii</i> Parish's bush-mallow	None/None GXQ/SX 1A	Chaparral, Coastal scrub. In a wash. 305 to 455 meters. Blooms June to July.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Special-Status Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Monardella pringlei</i> Pringle's monardella	None/None GX/SX 1A	Coastal scrub. Sandy hills. 300 to 400 meters. Blooms May to June.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Myosurus minimus</i> ssp. <i>apus</i> little mouse-tail	None/None G5T2Q/S2 3.1	Valley and foothill grassland, Vernal pools. Alkaline soils. 20 to 640 meters. Blooms March to June.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Nasturtium gambelii</i> Gambel's water cress	FE/ST G1/S1 1B.1	Marshes and swamps. Freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. 5 to 330 meters. Blooms April to October.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Navarretia fossalis</i> spreading navarretia	FT/None G2/S2 1B.1	Chenopod scrub, marshes and swamps, Playas, Vernal pools. San Diego hardpan and San Diego claypan vernal pools; in swales and vernal pools, often surrounded by other habitat types. 30 to 655 meters. Blooms April to June.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Phacelia stellaris</i> Brand's star phacelia	None/None G1/S1 1B.1	Coastal dunes, Coastal scrub. Open areas. 1 to 400 meters. Blooms March to June.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Pseudognaphalium leucocephalum</i> white rabbit-tobacco	None/None G4/S2 2B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland. Sandy, gravelly sites. 0 to 2,100 meters. Blooms (July)August to November(December).	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Ribes divaricatum</i> var. <i>parishii</i> Parish's gooseberry	None/None G5TX/SX 1A	Riparian woodland. Salix swales in riparian habitats. 65 to 300 meters. Blooms February to April.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Senecio aphanactis</i> chaparral ragwort	None/None G3/S2 2B.2	Chaparral, Cismontane woodland, Coastal scrub. Drying alkaline flats. 15 to 800 meters. Blooms January-April(May).	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Sidalcea neomexicana</i> salt spring checkerbloom	None/None G4/S2 2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas. Alkali springs and marshes. 15 to 1,530 meters. Blooms March to June.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Sphenopholis obtusata</i> prairie wedge grass	None/None G5/S2 2B.2	Cismontane woodland, Meadows and seeps. Open moist sites, along rivers and springs, alkaline desert seeps. 300 to 2,000 meters. Blooms April to July.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Symphotrichum defoliatum</i> San Bernardino aster	None/None G2/S2 1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, marshes and swamps, Meadows and seeps, Valley and foothill grassland. Vernal mesic grassland or near ditches, streams and springs; disturbed areas. 2 to 2,040 meters. Blooms July to November.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Texasporium sancti-jacobi</i> woven-spored lichen	None/None G3/S2 3	Chaparral. Open sites; in California with <i>Adenostoma fasciculatum</i> , <i>Eriogonum</i> , <i>Selaginella</i> . Found on soil, small mammal pellets, dead twigs, and on <i>Selaginella</i> . 60 to 660m.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Trichocoronis wrightii</i> var. <i>wrightii</i> Wright's trichocoronis	None/None G4T3/S1 2B.1	Marshes and swamps, Meadows and seeps, Riparian forest, Vernal pools. Mud flats of vernal lakes, drying riverbeds, alkali meadows. 5 to 435 meters. Blooms May to September.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
Invertebrates				
<i>Bombus crotchii</i> Crotch's bumblebee	None/None G3G4/S1S2	Coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include <i>Antirrhinum</i> , <i>Phacelia</i> , <i>Clarkia</i> , <i>Dendromecon</i> , <i>Eschscholzia</i> , and <i>Eriogonum</i> .	Not Expected	Suitable food plant genera are absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Ceratochrysis longimale</i> Desert cuckoo wasp	None/None G1/S1	Chaparral habitats	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Special-Status Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Cicindela tranquebarica viridissima</i> greenest tiger beetle	None/None G5T1/S1	Inhabits the woodlands adjacent to the Santa Ana River basin. Usually found in open spots between trees.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Eugnosta busckana</i> Busck's gallmoth	None/None G1G3/SH	Coastal sand dunes.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Euphydryas editha quino</i> quino checkerspot butterfly	FE/None G5T1T2/S1S2	Sunny openings within chaparral and coastal sage shrublands in parts of Riverside and San Diego counties. Hills and mesas near the coast. Need high densities of food plants <i>Plantago erecta</i> , <i>P. insularis</i> , and <i>Orthocarpus purpurescens</i> .	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Neolarra alba</i> white cuckoo bee	None/None GH/SH	Known only from localities in Southern California. Cleptoparasitic in the nests of perdita bees.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Rhaphiomidas terminatus abdominalis</i> Delhi Sands flower-loving fly	FE/None G1T1/S1	Found only in areas of the Delhi Sands formation in southwestern San Bernardino and northwestern Riverside counties. Requires fine, sandy soils, often with wholly or partly consolidated dunes and sparse vegetation. Oviposition requires shade.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Streptocephalus woottoni</i> Riverside fairy shrimp	FE/None G1G2/S1S2	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub. Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
Fish				
<i>Catostomus santaanae</i> Santa Ana sucker	FT/None G1/S1	Endemic to Los Angeles Basin south coastal streams. Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

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Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Gila orcuttii</i> arroyo chub	None/None G2/S2 SSC	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave and San Diego river basins. Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Oncorhynchus mykiss irideus</i> pop. 10 steelhead - southern California distinct population segment	FE/None G5T1Q/S1	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County). Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Rhinichthys osculus</i> ssp. 8 Santa Ana speckled dace	None/None G5T1/S1 SSC	Headwaters of the Santa Ana and San Gabriel rivers. May be extirpated from the Los Angeles River system. Requires permanent flowing streams with summer water temps of 17 to 20 degrees Celsius. Usually inhabits shallow cobble and gravel riffles.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
Amphibians				
<i>Rana muscosa</i> southern mountain yellow-legged frog	FE/SE G1/S1 WL	Federal listing refers to populations in the San Gabriel, San Jacinto and San Bernardino mountains (southern distinct population segment). Northern distinct population segment was determined to warrant listing as endangered in April 2014, effective Jun 30, 2014. Always encountered within a few feet of water. Tadpoles may require two to four years to complete their aquatic development.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Spea hammondi</i> western spadefoot	None/None G2G3/S3 SSC	Occurs primarily in grassland habitats but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Special-Status Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Reptiles				
<i>Anniella stebbinsi</i> Southern California legless lizard	None/None G3/S3 SSC	Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County. Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Arizona elegans occidentalis</i> California glossy snake	None/None G5T2/S2 SSC	Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California. Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Aspidoscelis hyperythra</i> orange-throated whiptail	None/None G5/S2S3 WL	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats. Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food: termites.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Aspidoscelis tigris stejnegeri</i> coastal whiptail	None/None G5T5/S3 SSC	Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland and riparian areas. Ground may be firm soil, sandy, or rocky.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Coleonyx variegatus abbotti</i> San Diego banded gecko	None/None G5T5/S1S2 SSC	Coastal and cismontane Southern California. Found in granite or rocky outcrops in coastal scrub and chaparral habitats.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Crotalus ruber</i> red-diamond rattlesnake	None/None G4/S3 SSC	Chaparral, woodland, grassland, and desert areas from coastal San Diego County to the eastern slopes of the mountains. Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Diadophis punctatus modestus</i> San Bernardino ringneck snake	None/None G5T2T3/S2?	Most common in open, relatively rocky areas. Often in somewhat moist microhabitats near intermittent streams. Avoids moving through open or barren areas by restricting movements to areas of surface litter or herbaceous vegetation.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Emys marmorata</i> western pond turtle	None/None G3G4/S3 SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 feet elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 kilometer from water for egg-laying.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Phrynosoma blainvillii</i> coast horned lizard	None/None G3G4/S3S4 SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Salvadora hexalepis virgulata</i> coast patch-nosed snake	None/None G5T4/S2S3 SSC	Brushy or shrubby vegetation in coastal Southern California. Require small mammal burrows for refuge and overwintering sites.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Thamnophis hammondi</i> two-striped gartersnake	None/None G4/S3S4 SSC	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 feet elevation. Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
Birds				
<i>Accipiter cooperii</i> Cooper's hawk	None/None G5/S4 WL	Woodland, chiefly of open, interrupted or marginal type. Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river floodplains; also, live oaks.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Agelaius tricolor</i> tricolored blackbird	None/ST G1G2/S1S2 SSC	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few kilometers of the colony.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Special-Status Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow	None/None G5T3/S3 WL	Resident in Southern California coastal sage scrub and sparse mixed chaparral. Frequents relatively steep, often rocky hillsides with grass and forb patches.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Artemisospiza belli belli</i> Bell's sage sparrow	None/None G5T2T3/S3 WL	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range. Nest located on the ground beneath a shrub or in a shrub 6 to 18 inches above ground. Territories about 50 yards apart.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Asio otus</i> long-eared owl	None/None G5/S3? SSC	Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses. Require adjacent open land, productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Athene cunicularia</i> burrowing owl	None/None G4/S3 SSC	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Not Expected	Suitable burrows were not observed within the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Buteo regalis</i> ferruginous hawk	None/None G4/S3S4 WL	Open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon and juniper habitats. Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Buteo swainsoni</i> Swainson's hawk	None/ST G5/S3	Typically breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural lands with groves of trees.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	FT/SE G5T2T3/S1	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Riverside Unified School District
STEM Education Center Project

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Coturnicops noveboracensis</i> yellow rail	None/None G4/S1S2 SSC	Summer resident in eastern Sierra Nevada in Mono County. Freshwater marshlands.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Elanus leucurus</i> white-tailed kite	None/None G5/S3S4 FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Empidonax traillii extimus</i> southwestern willow flycatcher	FE/SE G5T2/S1	Riparian woodlands in Southern California.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Eremophila alpestris actia</i> California horned lark	None/None G5T4Q/S4 WL	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills. Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Falco columbarius</i> merlin	None/None G5/S3S4 WL	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands and deserts, farms and ranches. Clumps of trees or windbreaks are required for roosting in open country.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Haliaeetus leucocephalus</i> bald eagle	FD/SE G5/S3 FP	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within one mile of water. Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Icteria virens</i> yellow-breasted chat	None/None G5/S3 SSC	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses. Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 feet of ground.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Special-Status Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Lanius ludovicianus</i> loggerhead shrike	None/None G4/S4 SSC	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub and washes. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Laterallus jamaicensis coturniculus</i> California black rail	None/ST G3G4T1/S1 FP	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. Needs water depths of about one inch that do not fluctuate during the year and dense vegetation for nesting habitat.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Pandion haliaetus</i> osprey	None/None G5/S4 WL	Ocean shore, bays, freshwater lakes, and larger streams. Large nests built in treetops within 15 miles of a good fish-producing body of water.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Polioptila californica californica</i> coastal California gnatcatcher	FT/None G4G5T3Q/S2 SSC	Obligate, permanent resident of coastal sage scrub below 2,500 feet in Southern California. Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Setophaga petechia</i> yellow warbler	None/None G5/S3S4 SSC	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada. Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Spinus lawrencei</i> Lawrence's goldfinch	None/None G3G4/S4	Nests in open oak or other arid woodland and chaparral, near water. Nearby herbaceous habitats used for feeding. Closely associated with oaks.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Vireo bellii pusillus</i> least Bell's vireo	FE/SE G5T2/S2	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2,000 feet. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, <i>Baccharis</i> , mesquite.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Mammals				
<i>Antrozous pallidus</i> pallid bat	None/None G4/S3 SSC	Found in a variety of habitats including deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts in crevices of rock outcrops, caves, mine tunnels, buildings, bridges, and hollows of live and dead trees, which must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Chaetodipus fallax fallax</i> northwestern San Diego pocket mouse	None/None G5T3T4/S3S4 SSC	Inhabits coastal sage scrub, sagebrush scrub, grasslands, and chaparral communities. Found in open, sandy areas in southwestern California and northern Baja California. Prefers moderately gravelly and rocky substrates.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Dipodomys merriami parvus</i> San Bernardino kangaroo rat	FE/SCE G5T1/S1 SSC	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and floodplains. Needs early to intermediate seral stages.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Dipodomys stephensi</i> Stephens' kangaroo rat	FT/ST G2/S2	Found primarily in annual and perennial grasslands, but also occurs in coastal scrub and sagebrush with sparse canopy cover. Prefers buckwheat, chamise, brome grass and filaree. Will burrow into firm soil and use the burrows of California ground squirrels and pocket gophers. Occurs only in Southern California.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Eumops perotis californicus</i> western mastiff bat	None/None G4G5T4/S3S4 SSC	Occurs in open, semi-arid to arid habitats, including coniferous and deciduous woodlands, coastal scrub, grasslands, and chaparral. Roosts in crevices in cliff faces and caves, and buildings. Roosts typically occur high above ground.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Lasiurus xanthinus</i> western yellow bat	None/None G4G5/S3 SSC	Occurs in arid regions of the southwestern United States. Typically found in riparian woodlands, oak or pinyon-juniper woodland, desert wash, palm oasis habitats, and urban or suburban areas. Roosts in trees, often between palm fronds.	Low Potential	Suitable tall trees are present within the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Special-Status Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit	None/None G5T3T4/S3S4 SSC	Occurs in Los Angeles, San Bernardino, Riverside, and San Diego counties of Southern California. Typically found in open shrub habitats. Will also occur in woodland habitats with open understory adjacent to shrublands.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Myotis yumanensis</i> Yuma myotis	None/None G5/S4	Occurs in a variety of lowland and upland habitats including desert scrub, riparian, and woodlands and forests. Distribution is closely tied to bodies of water. Roosts in a variety of areas including caves, cliffs, mines, crevices in live trees, and buildings and other man-made structures.	Not Expected	Suitable aquatic habitat is absent from the project site and surrounding area.
<i>Neotoma lepida intermedia</i> San Diego desert woodrat	None/None G5T3T4/S3S4 SSC	Occurs in scrub habitats of Southern California from San Luis Obispo county to San Diego county.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Nyctinomops femorosaccus</i> pocketed free-tailed bat	None/None G5/S3 SSC	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc. Rocky areas with high cliffs.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Onychomys torridus ramona</i> southern grasshopper mouse	None/None G5T3/S3 SSC	Desert areas, especially scrub habitats with friable soils for digging. Prefers low to moderate shrub cover. Feeds almost exclusively on arthropods, especially scorpions and orthopteran insects.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse	None/None G5T2/S1S2 SSC	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin. Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.
<i>Taxidea taxus</i> American badger	None/None G5/S3 SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Not Expected	Suitable habitat is absent from the project site, T-Mobile Cell Tower Relocation Area, and electrical feeder line upgrade alignment.

Riverside Unified School District
STEM Education Center Project

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Sensitive Natural Communities				
Riversidian Alluvial Fan Sage Scrub	None/None G1/S1.1		Not Present	
Southern California Arroyo Chub/Santa Ana Sucker Stream	None/None GNR/SNR		Not Present	
Southern Coast Live Oak Riparian Forest	None/None G4/S4		Not Present	
Southern Cottonwood Willow Riparian Forest	None/None G3/S3.2		Not Present	
Southern Riparian Forest	None/None G4/S4		Not Present	
Southern Riparian Scrub	None/None G3/S3.2		Not Present	
Southern Sycamore Alder Riparian Woodland	None/None G4/S4		Not Present	
Southern Willow Scrub	None/None G3/S2.1		Not Present	

Regional Vicinity refers to the United States Geological Survey 7.5-minute *Riverside East* topographic quadrangle and surrounding eight quadrangles.

Status (Federal/State)

- FE = Federal Endangered
- FT = Federal Threatened
- FPE = Federal Proposed
Endangered
- FPT = Federal Proposed
Threatened
- FD = Federal Delisted
- FC = Federal Candidate
- SE = State Endangered
- ST = State Threatened
- SCE = State Candidate
Endangered
- SCT = State Candidate
Threatened
- SR = State Rare
- SD = State Delisted
- SSC = CDFW Species of
Special Concern
- FP = CDFW Fully
Protected
- WL = CDFW Watch List

California Rare Plant Rank (California Native Plant Society)

- 1A = Presumed extirpated in California, and rare or extinct elsewhere
- 1B = Rare, Threatened, or Endangered in California and elsewhere
- 2A = Presumed extirpated in California, but common elsewhere
- 2B = Rare, Threatened, or Endangered in California, but more common elsewhere
- 3 = Need more information (Review List)
- 4 = Limited Distribution (Watch List)

California Rare Plant Rank Threat Code Extension

- .1 = Seriously endangered in California (>80% of occurrences threatened/high degree and immediacy of threat)
- .2 = Moderately threatened in California (20 to 80% of occurrences threatened/moderate degree and immediacy of threat)
- .3 = Not very endangered in California (<20% of occurrences threatened/low degree and immediacy of threat)

Special-Status Species in the Regional Vicinity of the Project Area

Scientific Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Other Statures				
G1 or S1	Critically Imperiled Globally or Subnationally (state)			
G2 or S2	Imperiled Globally or Subnationally (state)			
G3 or S3	Vulnerable to extirpation or extinction Globally or Subnationally (state)			
G4/5 or S4/5	Apparently secure, common and abundant			
GH or SH	Possibly Extirpated – missing; known from only historical occurrences but still some hope of rediscovery			
Additional notations may be provided as follows				
T–	Intraspecific Taxon (subspecies, varieties, and other designations below the level of species)			
Q–	Questionable taxonomy that may reduce conservation priority			
?–	Inexact numeric rank			
Sources: California Department of Fish and Wildlife California Natural Diversity Database (2022) and California Native Plant Society Online Inventory of Rare, Threatened, and Endangered Plants of California (2022)				

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Appendix E

Cultural Resources Assessment



Rincon Consultants, Inc.

11801 Pierce Street
Suite 200
Riverside, California 92505

951 405-0979

info@rinconconsultants.com
www.rinconconsultants.com

November 21, 2023
Project No: 19-08991

Stephanie Tang, Assistant Director of Campus Planning
UCR Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, California 92507
Via email: stephanie.tang@ucr.edu

Subject: Cultural Resources Assessment for the Riverside Unified School District Science, Technology, Engineering, and Mathematics Education Center Project, Riverside, California

Dear Ms. Tang:

This letter report presents the findings of a cultural resources assessment completed in support of the Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics (STEM) Education Center Project (proposed project) located at University of California, Riverside (UCR). UCR retained Rincon Consultants, Inc. (Rincon) to support the proposed project's compliance with the California Environmental Quality Act (CEQA). This letter report documents the results of the tasks performed by Rincon, specifically a cultural resources records search, archival and background research, and field survey. All work was completed in accordance with CEQA and applicable local regulations.

Architectural Historian Andrew Rodriguez conducted archival research and was the primary author of this memorandum. Archaeologist Andrea Ogaz conducted the site visit and was co-author of this memorandum. Architectural Historian JulieAnn Murphy served as the project manager. Archaeologist Heather Blind provided senior oversight, and the memorandum was reviewed by Principal Nichole Jordan for quality control. Mr. Rodriguez, Ms. Ogaz, Ms. Murphy, Ms. Blind, and Ms. Jordan all meet Secretary of the Interior's Professional Qualifications Standards in their respective fields.

Project Site and Description

The project site encompasses five non-contiguous areas in close proximity to each other – the proposed location of the Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (referred to as STEM Education Center or proposed project), the T-Mobile Cell Tower Relocation Area, the electrical feeder line upgrade alignment, the sewer line extension alignment, and the associated improvements area. The project site is approximately seven acres and is located within the UCR campus (Attachment A: Figure 1). The project site is within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive on UCR's East Campus (the STEM Education Center site is located at 956 Blaine Street Riverside, California 92507), adjacent to the UCR Baseball Complex. Specifically, the project site encompasses portions of Sections 17 through 20, 29, and 30 of Township 2S, Range 4W and Sections 24 and 25 of Township 2W, Range 52 on the *Riverside East, California*, United States Geological Survey (USGS) 7.5-minute topographic quadrangle (Attachment A: Figure 2).



The proposed project consists of the development of an approximately 80,000 gross square foot (gsf) school facility for students in grades 9 through 12 on the location of the proposed STEM Education Center; the decommissioning and removal of a cellular network tower, currently leased to T-Mobile, on the northwest corner of the location of the proposed STEM Education Center;¹ and the relocation of the T-Mobile cell tower to the northern portion of the adjacent UCR Baseball Complex (referred to herein as the “T-Mobile Cell Tower Relocation Area”). In addition, the proposed project would require several off-site improvements in close proximity to the site, including connections to existing utilities adjacent to the project site in Canyon Crest Drive and Blaine Street, installation of driveways adjacent to the project site, installation of approximately 1,900 linear feet of an electrical feeder line upgrade in Canyon Crest Drive and Blaine Street (herein referred to as the “electrical feeder line upgrade alignment”), and an approximately 175-foot-long extension of an existing eight-inch sewer line in Canyon Crest Drive from the northernmost driveway of the Falkirk Apartments to the southeastern corner of the project site (Attachment A: Figure 3). The existing open recreational fields (two baseball diamonds) on the proposed location of the STEM Education Center would be removed during construction of the proposed project. Work within the associated improvements area would be limited to the removal of existing bleachers, lighting, and the baseball diamond; installation of replacement landscaping; and replacement or relocation of an existing water utility line that runs below the Gage Canal. No modifications to the Gage Canal itself would occur, and no heavy equipment would be utilized on top of the Gage Canal to complete these improvements.

Methods

Background and Archival Research

Rincon completed background and archival research in support of this assessment in July and August 2022. A variety of primary and secondary source materials were consulted. Sources included, but were not limited to, historical maps, aerial photographs, and written histories of the area. The following sources were utilized to develop an understanding of the project site and its context:

- Historical aerial photographs accessed via NETR Online
- Historical aerial photographs obtained from Environmental Resources Data, Inc.
- Historical aerial photographs accessed via University of California, Santa Barbara Library FrameFinder
- Sanborn Fire Insurance Company Maps accessed through the Los Angeles County Public Library
- Sanborn Fire Insurance Company Maps obtained from Environmental Resources Data, Inc.
- Historical USGS topographic maps

California Historical Resources Information System Records Search

On April 15, 2022, Rincon received California Historical Resources Information System (CHRIS) records search results provided by UCR from the Eastern Information Center, which is the official State repository for cultural resources records and reports for Riverside County (Attachment B). The purpose of the records search was to identify previously recorded cultural resources as well as previously

¹ The existing Sprint/Crown Castle cellular network tower, located adjacent to the T-Mobile cellular network tower, is planned to be decommissioned independently of the proposed project in 2023, and no replacement is proposed.



conducted cultural resources studies within the project site and a one-mile radius surrounding it. Rincon also reviewed the National Register of Historic Places, the California Register of Historical Resources (CRHR), the California Historical Landmarks list, and the Built Environment Resources Directory. Additionally, Rincon reviewed the Archaeological Determination of Eligibility list.

Sacred Lands File Search

UCR contacted the Native American Heritage Commission in April 2022 to request a search of the Sacred Lands File and a contact list of Native Americans culturally affiliated with the project site vicinity (Attachment C).

Field Survey

Rincon Archaeologist Andrea Ogaz conducted a pedestrian survey of the proposed location of the STEM Education Center, T-Mobile Cell Tower Relocation Area, electrical feeder line upgrade alignment, and associated improvements area on September 16, 2022 (Attachment A: Figure 3).² Because the electrical feeder line upgrade alignment is a paved roadway and there is no ground exposure, the survey of this area was limited to a visual inspection of exposed ground. Rincon conducted a pedestrian survey of the proposed location of the STEM Education Center, T-Mobile Cell Tower Relocation Area, and the associated improvements area using transect intervals spaced 10 meters and oriented generally from north to south. Exposed ground surfaces were examined for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), ecofacts (marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, soil depressions, and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, postholes, foundations) or historic debris (e.g., metal, glass, ceramics). Ground disturbances such as burrows and drainages were also visually inspected. Survey accuracy was maintained using a handheld Global Positioning Satellite (GPS) unit and a georeferenced map of the proposed location of the STEM Education Center, T-Mobile Cell Tower Relocation Area, and the associated improvements area. Site characteristics and survey conditions were documented using field records and a digital camera. Representative site photographs taken during the field survey are included as Figure 5 through Figure 9 in Attachment A. Copies of the survey notes and all digital photographs taken during the field survey are maintained at the Rincon Los Angeles office.

Findings

Known Cultural Resources Studies

The CHRIS records search and background research identified 55 known cultural resources studies within one mile of the project site. Of these studies, five included a portion of, or are immediately adjacent to the project site. Approximately 20 percent of the project site has been previously studied, and approximately 100 percent has been surveyed in the last 31 years. Known studies that occurred within or adjacent to the project site are discussed in further detail below.

² Because the sewer line extension alignment is located within a paved right-of-way with development conditions similar to the electrical feeder alignment, the sewer line extension alignment was not surveyed.



Study RI-03491

Kevin B. Hallaran and Christopher Foord wrote *The Gage Canal: A Narrative History* in September 1991. The report is a comprehensive overview of the history of water conveyance in Riverside and the role of Matthew Gage in the development of the higher lands of Riverside and the construction and establishment of the Gage Canal, a portion of which is immediately adjacent to the western boundary of the current project site and traverses underground below the electrical feeder line upgrade alignment and associated improvements area. The report synthesized a variety of sources including monographs, newspapers, court cases, oral histories, letters, and other sources to inform the narrative.

Study RI-04363

In August 1999, Curt Duke of LSA Associates, Inc., wrote a memorandum to Ms. Janet Holtz of ATC Associates Inc., documenting the result of the Cultural Resource Assessment for Sprint PCS Facility RV03XC086-A (Canyon Crest Heights), County of Riverside, California. The memorandum was prepared to identify historic properties to comply with the requirements of Section 106 of the National Historic Preservation Act of 1966 for the installation of a telecommunications antenna on a proposed monopole within the current project site. The assessment identified one previously recorded archaeological site within 0.5 mile of the study area, and no cultural resources were observed as part of the field survey. The assessment concluded the installation of the monopole would result in no impacts to historic properties. The one previously recorded archaeological site identified in the assessment is not located within or adjacent to the project site.

Study RI-04813

Study RI-04813 is a Historic American Engineering Record (HAER) prepared for the Gage Canal, a portion of which is within the current project site and traverses underground below the electrical feeder line upgrade alignment and associated improvements area, by the National Park Service in 1993. The HAER report (No. CA-118) was the first of its kind for HAER to document a cultural landscape and provides an overarching and comprehensive review of the history of irrigation in Riverside, the construction of the Gage Canal, and a discussion of its importance to the region's citrus history. It includes photographs and architectural drawings of several features of the canal.

Study RI-07498

In July 2007, Michael Brandman Associates prepared a memorandum for Environmental Assessment Specialists documenting the results of a cultural resources study for the installation of a T-Mobile facility within the current project site. The study was prepared to identify historic properties to comply with the requirements of Section 106 of the National Historic Preservation Act of 1966. The cultural resources study included a cultural resources records search and archaeological field survey, did not identify any cultural resources, and concluded installation of the facility would not result in effects to any historic properties.

Study RI-07498

Recon conducted a cultural resources memorandum in August 2008 for the City of Riverside to identify environmental impacts to historical resources for proposed improvements to a large section of the Gage Canal, a portion of which is within the current project site and traverses underground below the electrical feeder line upgrade alignment and associated improvements area. The study was completed



to comply with the requirements of CEQA and included a records search and an archaeological field survey. The survey identified one cultural resource outside the project site and concluded the proposed improvements would not have any significant impacts to identified cultural resources. This portion of the Gage Canal was not evaluated for inclusion in the CRHR or the National Register of Historic Places as part of this study.

Known Cultural Resources

The CHRIS records search and background research identified 27 known cultural resources within one mile of the project site. Resources recorded in the search radius are listed in Table 1. Of these resources, one is recorded within the project site. The resource recorded within the project site is discussed in further detail below.

Resource 33-004768

This resource was recorded on May 11, 1992 by Robert J. Wlodarski. Wlodarski documented a portion of the Gage Canal, where it crosses Pennsylvania Avenue. The Department of Parks and Recreation forms describe the Gage Canal and provides a brief historical background. The Gage Canal is a 20.13-mile canal beginning at the Santa Ana River and terminating at the Mockingbird Reservoir. It was developed by Irish immigrant, Matthew Gage, who sought to realize the value of his land holdings by introducing a water source for irrigation. Construction on the canal began in 1885. The first 12-mile section of the canal was completed in 1886, and a second 8-mile section was completed in 1888. The whole length of the canal was updated with a concrete lining in 1903. Observed features include, but are not limited to, cement-lined canal with headgates, diversion dams, levees, sand pumps, suction pipes, transformers, receiving chambers, sluicing gates, temporary dams, division walls, and other common features associated with water-moving infrastructure. No artifacts or other resources were observed, but the record noted that the canal contributed extensively to the growth and development of Riverside. The Department of Parks and Recreation Series 523 form was updated during a survey for the proposed installation of a fiber optic cable between Riverside and San Diego (Jones & Stokes 2000). The resource was not evaluated for the CRHR, and no California Historical Resources Status Code was assigned in the original record or in the update.

However, the Gage Canal is a listed City of Riverside Landmark (Landmark #24) and is therefore a historical resource as defined in Section 15064.5(a) of the CEQA Guidelines. Although no evaluation documentation relating to its designation was identified as part of this study, the landmark listing notes that it is significant for its contributions as an important engineering feat that made the City's 1890s residential and agricultural boom possible (City of Riverside, n.d.).

Aerial Imagery and Historical Topographic Maps Review

Rincon completed a review of historic topographic maps and aerial imagery to ascertain the development history of the project site. Historic topographic maps from 1901 to 1942 depict the project site as mostly undeveloped land in the area of the present-day university. Early residential and commercial development was primarily concentrated to the west of the project site near the Rubidoux Mountains and Jurupa, while the east side of the city of Riverside, including the vicinity of the project site and the area surrounding Box Spring Mountains was sparsely developed (USGS 2022). Historic aerials and historic topographic maps from the 1940s indicate that the proposed location of the STEM Education Center was used for agricultural purposes and included a residence and an agricultural



Table 1 Known Cultural Resources

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	Eligibility Status	Relationship to Project Site
P-33-004768	CA-RIV-004768	Site - Historic	Water conveyance system	1992 (Robert J. Wlodarski, Historical Environmental, Archeological, Research, Team); 1999 (S. Ashkar, Jones & Stokes)	Locally designated	Within
P-33-000495	CA-RIV-000495	Other – Prehistoric	Bedrock milling feature	1971 (S. Broadbent, UCR Archaeological Research Unit)	Unknown	Outside
P-33-004638	CA-RIV-004638	Site – Prehistoric	Bedrock milling feature	1991 (Robert S. White, Archaeological Associates)	Unknown	Outside
P-33-006015	N/A	Structure – Historic	Government building, educational building	1994 (C. Throne, Consulting Historian)	Not eligible	Outside
P-33-006940	N/A	Building – Historic	L. Boffing House	1982 (Jim Warner, Riverside County Historical Commission)	6Z – Found ineligible for National Register, California Register, or local designation through survey evaluation	Outside
P-33-006941	N/A	Building – Historic	895 Marlborough	1982 (Jim Warner, Riverside County Historical Commission)	Eligible for local listing	Outside
P-33-007877	N/A	Building – Historic	The Barn Group, The Barn, The Barn Theater, Horse Barn, The Barn Stable, Wagon Shed No.1, Fertilizer Shed; Wagon Shed No. 2, Garage and Shop	1993 (Bai Tom Tang, UCR Archaeological Research Unit)	5S2- Individual property that is eligible for local listing or designation	Outside
P-33-007878	N/A	Building – Historic	University Cottage; Teamsters Cottage	1993 (Bai Tom Tang, UCR Archaeological Research Unit)	3S – Appears eligible for National Register as an individual property through survey evaluation	Outside



Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	Eligibility Status	Relationship to Project Site
P-33-008090	N/A	Site – Historic	Citrus Experiment Station National Register – Riv-028	1969 (Raymond, n/a)	Point of Historical Interest; 5D3 – Appears to be a contributor to a district that appears eligible for local listing or designation through survey evaluation	Outside
P-33-009691	N/A	Building – Historic	Peter J. Weber House	1983 (Kneisel, Conyers, Schaeffer, McPeteres, Old Riverside Foundation)	Listed in National Register; Locally Designated	Outside
P-33-009774	N/A	Other – Historic	C-Riverside East-C-1; Southern Pacific Railroad	1999 (S. Ashkar, Jones & Stokes)	Unknown	Outside
P-33-012288	N/A	Building – Historic	Highlander Church	2002 (Judith Marvin and Riordan Goodwin, LSA Associates, Inc.)	7 – Identified in reconnaissance level survey; Not evaluated	Outside
P-33-013218	N/A	Building – Historic	CRM TECH 1018-1H	2003 (Bai “Tom” Tang, CRM TECH)	3S – Appears eligible for both National Register as an individual property through survey evaluation	Outside
P-33-015743		Site – Historic	BNSF Railroad; San Jacinto Valley Railway; Santa Fe Valley Railroad; CRM TECH 2225-1H; Burlington Northern Santa Fe Railroad; 3CS; SJ-32; CRM TECH 2917-1; CRM Tech 3084; SRI-3145	2005 (P. Easter. And P. Beedle, Applied Earthworks, Inc); 2006 (Peggy Beedle, Applied EarthWorks, Inc.); 2007 (Theodore Cooley, Jones & Stokes); 2007 (Craft, Andrea, Jones and Stokes); 2008 (Daniel Ballester, CRM TECH); 2009 (M.C. Hamilton J. George, Applied Earthworks, Inc.); 2010 (S. Justus and A. Giacinto, ASM Affiliates); 2011 (Joshua Trampier, Statistical Research, Inc); 2012 (Stacie Wilson and Jill Gibson, AECOM); 2012 (C. Cotterman, E. Denniston, ECORP Consulting); 2015 (Daniel Ballester, CRM TECH); 2016 (Michael Hogan) CRM TECH)	6Z – Found ineligible for listing in National Register, California Register, or local designation through survey evaluation	Outside



Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	Eligibility Status	Relationship to Project Site
P-33-019877	N/A	Structure – Historic	3671 Valencia Hill Drive	2008 (Jessica J. Auck and Shannon Loftus, Chambers Group)	6Y Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-028056	CA-RIV-012668	Site – Historic	GP-1; Voided – P-33-028077	2017 (Breana Campbell, Rincon Consultants)	Recommended ineligible, 2017	Outside
P-33-028798	N/A	Building – Historic	614 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-028801	N/A	Building – Historic	620 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-028802	N/A	Building – Historic	628 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-0928804	N/A	Building – Historic	632 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-028806	N/A	Building – Historic	640 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside



Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	Eligibility Status	Relationship to Project Site
P-33-028807	N/A	Building – Historic	652 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-028808	N/A	Building – Historic	658 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-028809	N/A	Building – Historic	664 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-028810	N/A	Building – Historic	670 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-028811	N/A	Building – Historic	676 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside
P-33-028812	N/A	Building – Historic	688 Highlander Drive	2003 (Carrie Chasteen, Myra L. Frank & Associates)	6Y – Determined ineligible for National Register by consensus through Section 106 process; Not evaluated for California Register or local listing	Outside

Source: Eastern Information Center 2022 (see Attachment B)



outbuilding (NETR 1948). The T-Mobile Cell Tower Relocation Area was also used for agricultural purposes, while the utilities improvement alignment was roadway for both Blaine Street and Canyon Crest Drive. Similarly, the area surrounding the project site was primarily used for agriculture, while residential tract development began to appear east of the project site, opposite Canyon Crest Drive.

By this time, and as indicated by historic topographic maps, the present-day university campus, then known as the UC Citrus Experiment Station, was expanding (USGS 2022). Historic aerials from 1959 to 1968 show that the project site remained largely unchanged, and the area around the project site was more intensely developed with residential development to the northeast of the project site and the expanding university campus to the southeast of the project site. By 1966, Interstate 215 (west of the project site) had been established (NETR 1966). According to historic aerials, by 1978, the proposed location of the STEM Education Center no longer included the agricultural outbuilding, and the lot immediately to its west, adjacent to the T-Mobile Cell Tower Relocation Area, had been updated for a baseball field (NETR 1978). The area immediately surrounding the project site was more intensely developed with single and multifamily residences. By 1984, the former residence on the proposed location of the STEM Education Center was removed, and this location was improved for use as a baseball diamond (NETR 1984). In the following years, residential development continued to intensify in the area north and east of the project site while the campus continued to grow in the area southeast of the project site. Historic aerials from 2005 indicate that the project site and its immediate area have remained largely the same since that time.

Sacred Land File Search

On April 19, 2022, the Native American Heritage Commission responded to UCR's AB 52 contacts and Sacred Lands File request, stating that the results of the Sacred Lands File search were negative. See Attachment C for the Native American Heritage Commission response, including Tribal contacts list(s).

Survey Results

The following section summarizes the results of all background research and fieldwork as they pertain to archaeological resources that may qualify as historical resources and/or unique archaeological resources.

The proposed location of the STEM Education Center and associated improvements area are located on an active recreational field with two baseball diamonds, surface parking, and cell towers. The T-Mobile Tower Relocation Area is located on the northeast corner of the adjacent UCR Baseball Complex in a landscaped area behind the outfield with maintained grass and trees. The proposed location of the STEM Education Center, T-Mobile Tower Relocation Area, and associated improvements area are flat with a 10-degree western-facing slope along the eastern boundary of the proposed location of the STEM Education Center. The associated improvements area contains a 15-degree western-facing slope with three drainage grates that are located above the Gage Canal, which is underground and was not visible. Ground visibility was poor (0 to 25 percent) due to dense grasses, pine duff, pinecones, ornamental vegetation that included pine and eucalyptus trees, and low-lying bushes. Soils in the proposed location of the STEM Education Center, T-Mobile Tower Relocation Area, and associated improvements area consisted of a grey-brown silty loam with granitic inclusions. The baseball diamonds had light tan sandy gravel. The utilities improvement alignment is within paved roadways. The project site has been previously disturbed from the construction, use, and maintenance of the baseball fields, UCR Baseball



Complex, and roadways. No archaeological resources were identified during the field survey. See Figure 5 through Figure 9 in Attachment A for representative site photographs.

Conclusions and Recommendations

The impact analysis included herein is organized based on the cultural resources thresholds included in the CEQA Guidelines Appendix G: Environmental Checklist Form:

- a. Would the proposed project cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?
- b. Would the proposed project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?
- c. Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Threshold A broadly refers to historical resources. To differentiate more clearly between archaeological and built environment resources, the analysis under Threshold A is limited to built environment resources. Archaeological resources, including those that may be considered historical resources pursuant to CEQA Guidelines Section 15064.5 and those that may be considered unique archaeological resources pursuant to CEQA Guidelines Section 21083.2, are considered under Threshold B.

Historical Built Environment Resources

The current assessment confirmed the presence of one historical resource within the project site, a segment of the Gage Canal, which is a designated City of Riverside Landmark (Landmark #24). As detailed above, the Gage Canal is significant for its contributions to the successful settlement and agricultural development of Riverside. Its character-defining features, or those physical features which convey the significance of the resource, can generally be characterized as its channelized and linear form. However, the segment within the project site is completely underground and exhibits a general lack of visible character-defining features. In consideration of impacts to the historical resource, Section 15064.5(b) of the CEQA Guidelines state a significant impact would occur if the resource were materially impaired, which is defined as the demolition or alteration “in an adverse manner [of] those characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the California Register.”

The proposed project does not include any direct physical changes to the Gage Canal and would not result in the physical demolition, destruction, relocation, or alteration of the historical resource such that its significance would be materially impaired. The proposed removal of existing bleachers, lighting, and baseball diamond and the replacement of landscaping would not involve the use of heavy equipment, and will likely result in less use of the area directly above the Gage Canal. In addition, the proposed utilities improvements and any replacement or relocated water utility lines would be installed below the canal via trenchless methods. Furthermore, project construction would not involve activities typically associated with groundborne vibration that could cause damage to a historical resource, such as pile driving or blasting. Proposed work adjacent to the Gage Canal, including development of the STEM Education Center and the relocation of the T-Mobile cell tower, also would not alter the essential form and integrity of the historical resource or alter important views of visual relationships of the historical resource, which would retain its current linear and channelized character. Changes to the



setting, or the physical environment of the historical resource, resulting from the proposed project would be consistent with changes in setting that have occurred since the Gage Canal was constructed, including residential and commercial development within the area. As such, the canal's setting and overall relationship to the surrounding environment would remain unchanged. Therefore, Rincon recommends a finding of ***less than significant impact to historical resources*** under CEQA.

Historical and Unique Archaeological Resources

This assessment did not identify any archaeological resources or archaeological deposits in the project site. The lack of surface evidence of archaeological materials does not preclude their subsurface existence. However, the absence of substantial prehistoric or historic-period archaeological remains within the immediate vicinity, along with the existing level of disturbance in the project site suggest there is a low potential for encountering intact subsurface archaeological deposits. Rincon presents the following recommended mitigation measure for unanticipated discoveries during construction. With adherence to this measure, Rincon recommends a finding of ***less than significant impact with mitigation for archaeological resources*** for the proposed project under CEQA.

Recommended Mitigation Measure

Unanticipated Discovery of Archaeological Resources

If previously undiscovered archaeological resources are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and the find shall be evaluated by a qualified archaeologist meeting the Secretary of the Interior standards to determine whether it is a unique archaeological resource, as defined by CEQA. If the find is not a unique archaeological resource, work may resume. If the find is determined to be a unique archaeological resource, the archaeologist shall make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to archaeological resources. If UCR determines that preservation in place is not feasible, the archaeologist shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.

Human Remains

No human remains are known to be present within the project site. However, the discovery of human remains is always a possibility during ground-disturbing activities. If human remains are found, the State of California Health and Safety Code Section 7050.5 states no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be of Native American origin, the Coroner will notify the Native American Heritage Commission, which will determine and notify a most likely descendant. The procedures for the treatment of Native American human remains are contained in California Health and Safety Code Sections 7050.5 and 7052 and California PRC Section 5097. With



adherence to existing regulations, Rincon recommends a finding of *less than significant impact to human remains* for the proposed project under CEQA.

Should you have any questions concerning this study, please do not hesitate to contact the undersigned at (909) 523-0705 or arodriguez@rinconconsultants.com.

Sincerely,
Rincon Consultants, Inc.

A handwritten signature in black ink, appearing to read "Andrew Rodriguez".

Andrew Rodriguez
Architectural Historian

A handwritten signature in blue ink, appearing to read "NICHOLE JORDAN".

Nichole Jordan
Principal

Attachments

- Attachment A Project Location Maps and Photographs
- Attachment B California Historical Resources Information System Records Search Results
- Attachment C Sacred Lands File Search Results



References

Hallaran, Kevin B. and Christopher Foord

- 1991 *The Gage Canal: A Narrative History* [Excerpt from HAER Report, pp. 108-180].

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Michael Brandman Associates

- 2007 Cultural Records Search and Site Visit Results for T-Mobile Facility Candidate IE25350A (UCR Sports Center), 1000 West Blaine Street, Riverside, Riverside County, California.

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- n.d. "Landmarks of the City of Riverside." Accessed October 2022, through <https://www.riversideca.gov/historic/pdf/landmarks-WEB.pdf>.

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- 2022 TopoViewer. Various topographical maps of the project site and surrounding area between 1901 and 2021. Accessed October 2022, through <https://ngmdb.usgs.gov/topoview/viewer/#15/36.5964/-121.8625>.

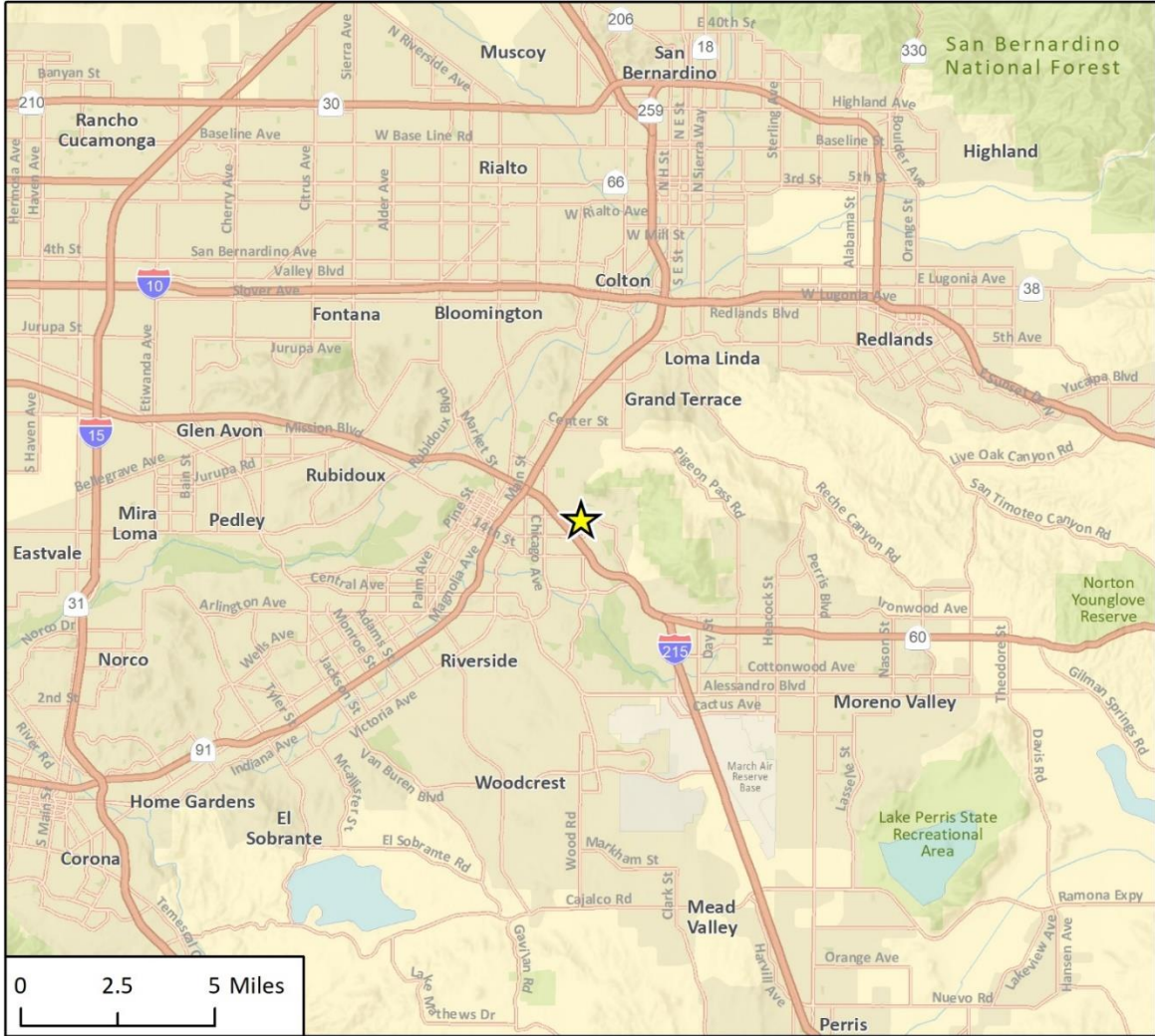
Wlodarski, Robert J.

- 1992 Archaeological Site Record for CA-RIV-476H

Attachment A

Project Location Maps and Photographs

Figure 1 Regional Location



Imagery provided by Esri and its licensors © 2021.

Project Location

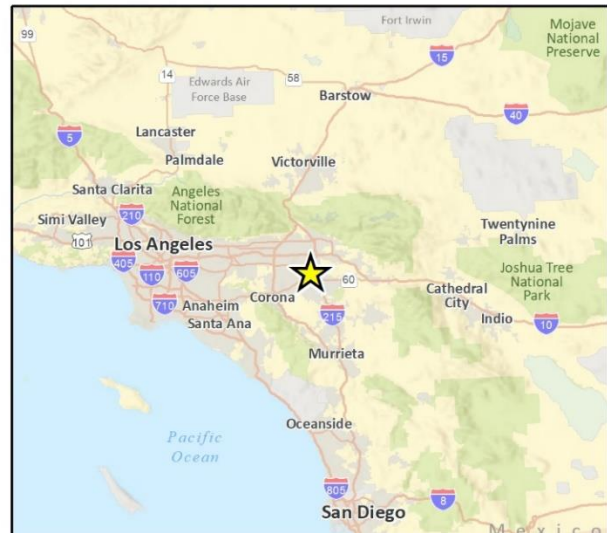


Fig 1 Regional Location

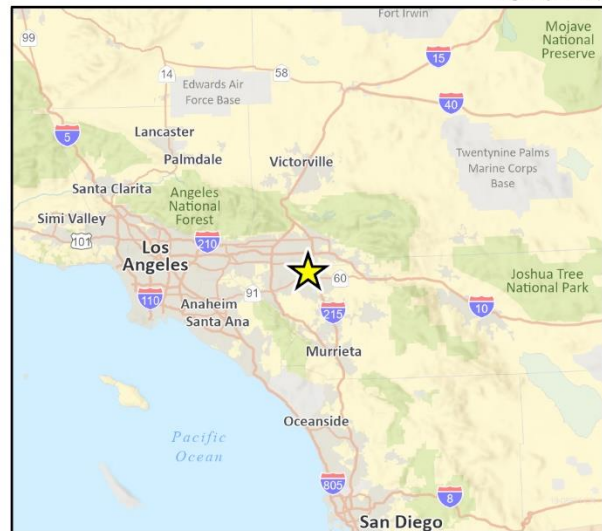
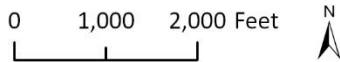
Figure 2 Project Site Location – Topographic Map



Basemap provided by USGS © 2023. Riverside East Quadrangle. T02S R04W S19. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.

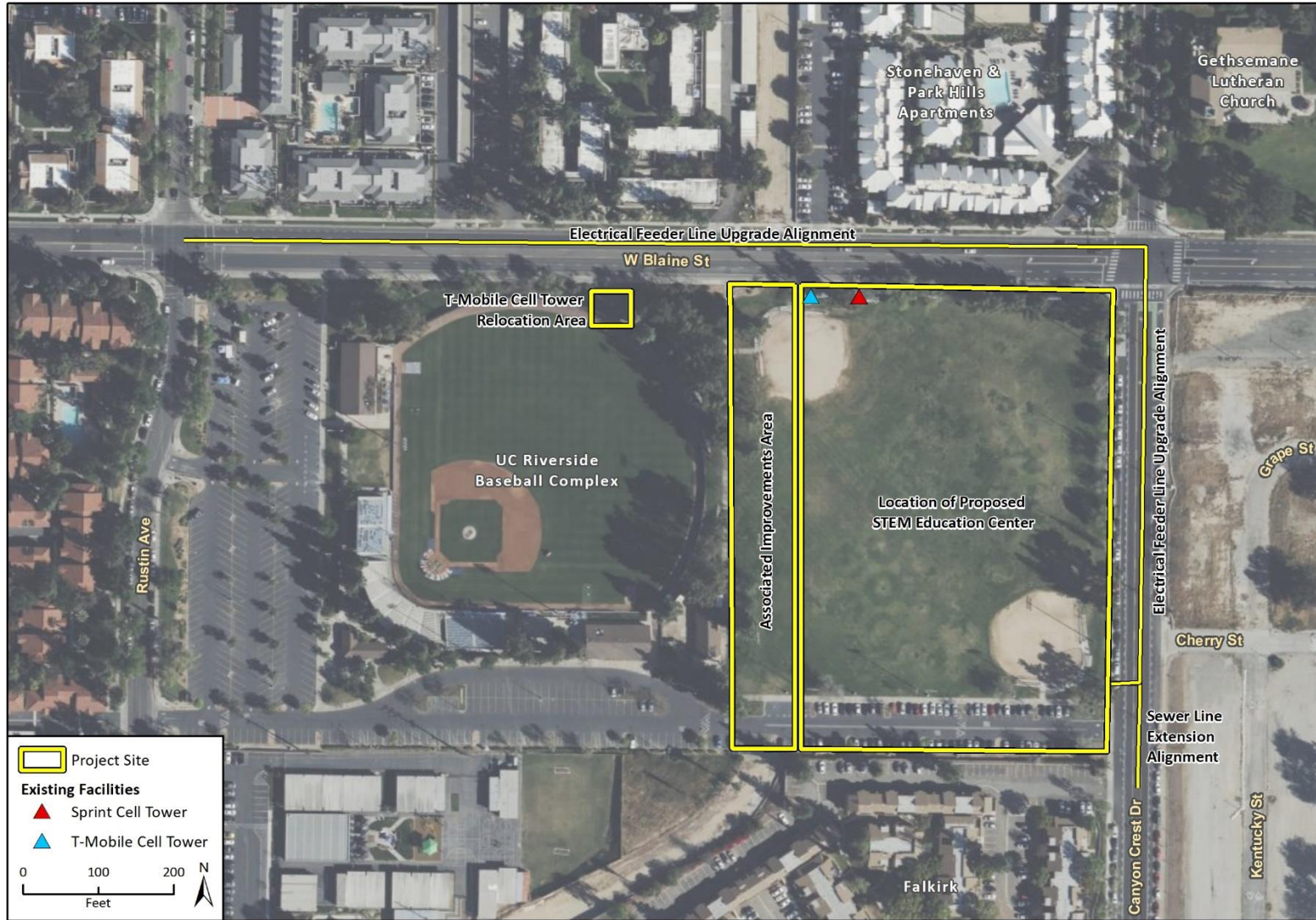
19-08991.CR
CRFig 1 Proj Locn Map

Project Location



19-08991.CR

Figure 3 Location of Project Site



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Fig 2-3 Location of Project Site and Off-Site Improvements

Figure 4 Site Photograph Locations



Imagery provided by Microsoft Bing and its licensors © 2023.

19-08991 CR
 CRFig X Site Photograph Locations

Figure 5 Photo 1 Overview of Eastern Boundary of Project Site, View to the Southeast



Figure 6 Photo 2 Overview of Existing Cell Tower on Project Site, View to the East



Figure 7 Photo 3 Overview of T-Mobile Cell Tower Relocation Area, View to the East



Figure 8 Photo 4 View of Existing Cell Tower at Project Site, View to the West



Figure 9 Photo 5 Overview of Electrical Feeder Line Upgrade Alignment (Blaine Street at Rustin Avenue), View to the East



Attachment B

California Historical Resources Information System Records Search Results

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-03491	NADB-R - 1084162; Voided - MF-3749	1991	HALLARAN, KEVIN	THE GAGE CANAL: A NARRATIVE HISTORY [EXCERPT FROM DRAFT HAER REPORT, PP 108-180)	HALLARAN AND CHRISTOPHER FORD	33-004768
RI-04363	NADB-R - 1085673; Voided - MF-4860	1999	DUKE, CURT	LETTER REPORT: CULTURAL RESOURCE ASSESSMENT FOR SPRINT PCS FACILITY RV03XC086-A (CANYON CREST HEIGHTS), COUNTY OF RIVERSIDE,	LSA ASSOCIATES, INC.	
RI-04813	NADB-R - 1086175; Other - 118, 119, 120, 121, 122, 123	1993	NATIONAL PARK SERVICE, HAER	CALIFORNIA CITRUS HERITAGE RECORDING PROJECT: PHOTOGRAPHS, WRITTEN HISTORICAL AND DESCRIPTIVE DATA, REDUCED COPIES OF MEASURED DRAWINGS FOR: ARLINGTON HEIGHT CITRUS LANDSCAPE, GAGE IRRIGATION CANAL, NATIONAL ORANGE COMPANY PACKING HOUSE, VICTORIA BRIDGE, AND UNION PACIFIC RAILROAD BRIDGE	NATIONAL PARK SERVICE, HISTORIC AMERICAN ENGINEERING RECORD	33-003361, 33-004768, 33-009772
RI-07498		2007	Bonner, Wayne H. and Marnie Aislin-Kay	Letter Report: Cultural Resource Records Search and Site Visit Results for T-Mobile Facility Candidate IE25350A (UCR Sports Center), 1000 West Blaine Street, Riverside, Riverside County, California.	Michael Brandman Associates	
RI-07924	Other - RECON 4694A	2008	Zepeda-Herman, Carmen	Letter Report: Results of Cultural Resources Survey for the Expanded Gage Exchange Project (RECON No. 4694A)		33-009774

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-02345	NADB-R - 1082808; Voided - MF-2550	1988	DROVER, C.E.	A CULTURAL RESOURCES ASSESSMENT OF THE PROPOSED USDA SALINITY LABORATORY, UNIVERSITY OF CALIFORNIA, RIVERSIDE	AUTHOR(S)	
RI-02875	NADB-R - 1083481; Voided - MF-3075	1990	ARKUSH, BROOKE S.	AN ARCHAEOLOGICAL ASSESSMENT OF TENTATIVE PARCEL 25450, LOCATED IN THE MOUNT VERNON BOWL AREA OF THE CITY OF RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA	ARCHAEOLOGICAL RESEARCH UNIT	33-003957
RI-03189	NADB-R - 1083751; Other - 89-90; Voided - MF-3408	1990	PEAK AND ASSOCIATES and Brian F. Mooney Associates	CULTURAL RESOURCES ASSESSMENT OF AT&T'S PROPOSED SAN BERNARDINO TO SAN DIEGO FIBER OPTIC CABLE, SAN BERNARDINO, RIVERSIDE AND SAN DIEGO COUNTIES, CALIFORNIA	PEAK AND ASSOCIATES & BRIAN F. MOONEY ASSOCIATES	
RI-03190	NADB-R - 1083752; Other - 89-90; Voided - MF-3408	1990	PEAK AND ASSOCIATES	PART III, ADDENDUM TO: CULTURAL RESOURCES ASSESSMENT OF AT&T'S PROPOSED SAN BERNARDINO TO SAN DIEGO FIBER OPTIC CABLE, SAN BERNARDINO, RIVERSIDE, AND SAN DIEGO COUNTIES, CALIFORNIA	PEAK AND ASSOCIATES	33-000805, 33-001017, 33-001057, 33-001183, 33-002013, 33-002696, 33-002701, 33-002711, 33-002725
RI-03367	NADB-R - 1084000; Voided - MF-3606	1991	WHITE, ROBERT S.	AN ARCHAEOLOGICAL ASSESSMENT OF A 9.67 ACRE PARCEL LOCATED ADJACENT TO MOUNT VERNON AVENUE IN THE CITY OF RIVERSIDE, RIVERSIDE COUNTY	ARCHAEOLOGICAL ASSOCIATES, LTD.	33-004637, 33-004638
RI-03381	NADB-R - 1084023; Submitter - 1169; Voided - MF-3621	1992	HOGAN, MICHAEL	CULTURAL RESOURCES ASSESSMENT: THERMAL ENERGY STORAGE FACILITY, UNIVERSITY OF CALIFORNIA, RIVERSIDE; RIVERSIDE COUNTY, CALIFORNIA	ARCHAEOLOGICAL RESEARCH UNIT, U.C. RIVERSIDE	
RI-03508	NADB-R - 1084193; Voided - MF-3771	1992	HAYDEN, WILLIAM E.	A CULTURAL RESOURCE ASSESSMENT CONDUCTED FOR SUGARLOAF PROPOSED RESERVOIR SITE IN THE CITY OF RIVERSIDE, CALIFORNIA	ARCHAEOLOGICAL RESOURCE MANAGEMENT CORP.	33-004768
RI-03509	NADB-R - 1084236; Voided - MF-3771	1992	HAYDEN, WILLIAM E.	REVISED: A CULTURAL RESOURCE ASSESSMENT CONDUCTED FOR SUGARLOAF PROPOSED RESERVOIR SITE IN THE CITY OF RIVERSIDE, CALIFORNIA	Archaeological Resource Management Corporation	33-004768

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-03605	NADB-R - 1084329; Voided - MF-3879	1993	WLODARSKI, ROBERT J.	DRAFT REPORT: AN ARCHAEOLOGICAL SURVEY REPORT DOCUMENTING THE EFFECTS OF THE RCIC I-215 IMPROVEMENT PROJECT IN MORENO VALLEY, RIVERSIDE COUNTY, TO ORANGE SHOW ROAD IN THE CITY OF SAN BERNARDINO, SAN BERNARDINO COUNTY, CALIFORNIA.	HISTORICAL, ENVIRONMENTAL, ARCHAEOLOGICAL RESEARCH TEAM, Calabasas, CA	33-003815, 33-004299, 33-004495, 33-004496, 33-004768, 33-004787, 33-004791
RI-03693	NADB-R - 1084465; Voided - MF-3996	1991	FOSTER, JOHN M., JAMES J. SCHMIDT, CARMEN A. WEBER, GWENDOLYN R. ROMANI, and ROBERTA S. GREENWOOD	CULTURAL RESOURCE INVESTIGATION: INLAND FEEDER PROJECT, METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	GREENWOOD & ASSOCIATES	33-000021, 33-000024, 33-000399, 33-000608, 33-001017, 33-001697, 33-002504, 33-002505, 33-002951, 33-003098
RI-03899	NADB-R - 1084819; Voided - MF-4262	1994	THORNE, SHELDON and CHRISTOPHER DROVER	ENVIRONMENTAL IMPACT EVALUATION: A CULTURAL RESOURCES ASSESSMENT OF THE INSECTARY BUILDING, UNIVERSITY OF CALIFORNIA, RIVERSIDE, RIVERSIDE COUNTY	AUTHORS	33-006015
RI-04404	NADB-R - 1085736; Voided - MF-4913	2000	JONES AND STOKES ASSOCIATES, INC.	FINAL CULTURAL RESOURCES INVENTORY REPORT FOR THE WILLIAMS COMMUNICATIONS, INC., FIBER OPTIC CABLE SYSTEM INSTALLATION PROJECT, RIVERSIDE TO SAN DIEGO, CALIFORNIA VOL I-IV.	JONES AND STOKES ASSOCIATES, INC.	33-000816, 33-000817, 33-000862, 33-001845, 33-002970, 33-003081, 33-003839, 33-004202, 33-004624, 33-004744, 33-004768, 33-007587, 33-007601, 33-008105, 33-008172, 33-009772, 33-009773, 33-009774, 33-009775, 33-009776
RI-04411	NADB-R - 1085748; Submitter - 615; Voided - MF-4920	2000	LOVE, BRUCE, BAI "TOM" TANG, MARIAM DUHDUL, and ADRIAN SANCHEZ MORENO	HISTORICAL/ARCHAEOLOGICAL RESOURCES SURVEY REPORT: ROBERT AUST INDUSTRIAL OFFICE PARK, CITY OF RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA	CRM TECH	33-006940
RI-04450	NADB-R - 1085795	1999	DUKE, CURT	CULTURAL RESOURCE ASSESSMENT FOR PACIFIC BELL MOBILE SERVICES FACILITY CM 681-02, COUNTY OF RIVERSIDE, CALIFORNIA	LSA ASSOCIATES, INC.	
RI-04798	NADB-R - 1086160	2004	BONNER, WAYNE H.	AN ARCHAEOLOGICAL ASSESSMENT OF AN 8.4 ACRE PARCEL LOCATED AT 2751 MOUNT VERNON AVENUE, RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA	W H BONNER ASSOCIATES	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-04997	NADB-R - 1086359; Submitter - 09-01-11-594	2001	MCKENNA ET AL.	A PHASE I CULTURAL RESOURCES INVESTIGATION OF THE PROPOSED CHILLER PLANT, TANK, AND PIPELINE SYSTEM ON THE UNIVERSITY OF CALIFORNIA, RIVERSIDE CAMPUS, RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA.	MCKENNA ET AL.	33-000495
RI-04998	NADB-R - 1086360; Submitter - 04-01-05-566	2001	MCKENNA ET AL.	A PHASE I CULTURAL RESOURCES INVESTIGATION OF THE ISLANDER PARK RETENTION BASINS AND CHANNEL IMPROVEMENTS PROJECT AREA, RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA.	MCKENNA ET AL.	33-000495, 33-002384
RI-05054	NADB-R - 1086416; Submitter - 02.676	2002	MCKENNA ET AL.	TES EXPANSION & SATELLITE PLANT MONITORING PROGRAM	MCKENNA ET AL.	
RI-05056	NADB-R - 1086418; Submitter - 01-02-03-708	2003	MCKENNA ET AL.	A PHASE I CULTURAL RESOURCES INVESTIGATION FOR THE PROPOSED CORONA FEEDER MASTER PLAN PROJECT AREA, RIVERSIDE COUNTY, CALIFORNIA	MCKENNA ET AL	33-003832, 33-004768, 33-004791, 33-009774
RI-05622	NADB-R - 1086985	2000	DROVER, CHRISTOPHER E.	ENVIRONMENTAL IMPAT EVALUATION: AN ARCHAEOLOGICAL ASSESSMENT OF ALTERNATE PARKING ASC, UNIVERSITY OF CALIFORNIA, RIVERSIDE, RIVERSIDE CALIFORNIA	CHRISTOPHER DROVER	
RI-05744	NADB-R - 1087107; Submitter - 1018	2003	TANG, BAI and MICHAEL HOGAN	HISTORICAL/ARCHAEOLOGICAL RESOURCES SURVEY REPORT FOR ASSESSOR'S PARCEL NUMBERS 249-110-050 AND -051, PROPOSED SPRUCE FINANCIAL CENTER 2 PROJECT, CITY OG RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA	CRM TECH	
RI-05748	NADB-R - 1087111; Submitter - 994	2003	DOAN, UYEN K., MICHAEL HOGAN, and BAI TANG	ARCHAEOLOGICAL SENSITIVITY ASSESSMENT: HUNTER PARK REDEVELOPMENT PLAN AMENDMENT, CITY OF RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA	CRM TECH	33-001984, 33-004495, 33-004791, 33-008752, 33-009006, 33-010902
RI-05873	NADB-R - 1087236; Submitter - 627	2002	LOVE, BRUCE, BAI TANG, MICHAEL HOGAN, and MARIAM DAHUL	CULTURAL RESOURCES TECHNICAL REPORT, UCR LONG RANGE DEVELOPMENT PLAN	CRM TECH	33-000495, 33-004768, 33-006015, 33-007877, 33-007878, 33-008090

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-06088	Caltrans - 08230-466900; NADB-R - 1087451	1998	BRICKER, DAVID	FIRST SUPPLEMENTAL HISTORIC PROPERTY SURVEY REPORT FOR THE IMPROVEMENT OF INTERSTATE ROUTE 215/STATE ROUTE 91/ STATE ROUTE 60, RIVERSIDE COUNTY, CA	CALTRANS- DISTRICT 8	33-004495, 33-009681, 33-011517, 33-011521, 33-011523, 33-011537, 33-011539, 33-011561, 33-012149, 33-012150, 33-012151, 33-012152, 33-012153, 33-012154, 33-012155, 33-012156, 33-012157, 33-012158, 33-012159, 33-012160, 33-012162, 33-012163, 33-012164, 33-012165, 33-012166, 33-012167, 33-012168, 33-012169, 33-012170, 33-012171
RI-06284	NADB-R - 1087647; Submitter - PROJECT NUMBER: LA-0779B	2006	Carla Allred	Letter Report: Proposed Cellular Tower Project(s) in Riverside County, California, Site Number(s) and Name(s): LA-0779B/Freeway Storage TCNS #17312	EarthTouch, Inc.	
RI-06424	NADB-R - 1087787; Submitter - CONTRACT #1505	2005	TANG, BAI, MICHAEL HOGAN, MATTHEW WETHERBEE, and ROBERT PORTER	IDENTIFICATION AND EVALUATION OF HISTORIC PROPERTIES, HIGHLAND, HUNT, AND BRYANT PARKS IMPROVEMENT PROJECT, CITY OF RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA	CRM TECH	
RI-07058		2002	Carolyn E. Kyle	Cultural Resource Assessment for Cingular Wireless Facility SB145-01 City of Riverside Riverside County, California	Kyle Consulting	
RI-07146		2002	Duke, Curt and Judith Marvin	Cultural Resource Assessment, Cingular Wireless, Facility No. SB 219-01, Riverside County, California.	LSA Associates, Inc.	
RI-07291		2007	Bai Tom Tang and Michael Hogan	Historical/Archaeological Resources Survey Report: Assessor's Parcel Nos. 251-120-010, 251-130-009, and 251-130-010 in the City of Riverside, Riverside County, California	CRM TECH	
RI-07322		2006	Bonner, Wayne and Aislin-Kay, Marnie	Cultural Resource Records Search and Site Visit Results for T-Mobile Telecommunications Facility Candidate IE24032C (Essex Commercial Center), 1855 Iowa Avenue, Riverside, Riverside County, California.	Michael Brandman Associates	
RI-07816	Submitter - RS0166-51 Cultural Rpt	2008	Bonner, Wayne H. and Marnie Aislin-Kay	Letter Report: Cultural Resource Records Search and Site Visit Results for AT&T Facility Candidate RS0166-51 (UCR Watkins-Valencia), 3671 Valencia Hill Drive, Riverside, Riverside County, California	Michael Brandman Associates	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-08308		2009	Sarah A. Williams, Wayne H. Bonner, and Kathleen A. Crawford	Letter Report: Cultural Resources Records and Site Visit Results for T-Mobile USA Candidate IE05098A, (TM098 UCR Monopine) UC Riverside, Riverside County, California.	Michael Brandman Associates, San Bernardino, CA	
RI-08577	Other - Project No. UCR1001; Submitter - Project No. UCR1001	2010	Casey Tibbet	Historic Resources Assessment: The Barn Group and University Cottage; University of California, Riverside City of Riverside, Riverside County, California	LSA	33-007877, 33-007878
RI-08598	Submitter - McKenna et. Al Job #1497	2010	Jeanette A. McKenna	A Summary Report on the Proposed Improvements at the John W. North High School Campus in the City of Riverside County, California	McKenna et al.	
RI-08620		2010	Shannon L. Loftus and Jessica J. Auck	REVISED: Historic Resources Evaluation: Assessor Parcel Numbers 251-18-005-6	Chambers Group, Inc	33-019877
RI-08771		2010	Bai 'Tom' Tang	Preliminary Historical/Archaeological Resource Study Southern California Regional Rail Authority (SCRRA) Perris Valley Line Positive Train Control (PTC) Project In and near the Cities of Riverside, Perris, and Menifee Riverside County, California CRM TECH Contract No. 2444	CRM TECH	
RI-08840		2012	Wayne H. Bonner and Sarah A. Williams	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LCC Candidate IE25999A (UCR Parking Lot 1), 900 University Avenue, Riverside, Riverside County, California	Michael Brandman Associates	33-004768, 33-007375, 33-007877, 33-011475
RI-09126		2013	Susan Underbrink	Cultural Survey Report for the University Wash Channel Stage 3 Project	TRC	
RI-09143		2013	Gini Austerman	Cultural Resources Assessment West Campus Solar Farm UCR #950338 University of California, Riverside, Riverside County, California	LSA	
RI-09232		2014	Carrie D. Wills, Sarah A. Williams, and Kathleen A. Crawford	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate IE04447A (SB219 Highlander Church), 3431 Mount Vernon Avenue, Riverside, Riverside County, California	Environmental Assessment Specialists, Inc. EAS	
RI-09786	Other - Rincon Consultants Project No. 17-03907	2017	Hannah Haas and Benjamin Vargas	Phase I Cultural Study for the 750 Marlborough Drive Project	Rincon Consultants, Inc.	33-028056

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-09832		2015	Carrie D Wills and Sarah A Williams	Cultural Resource Records Search Results for T-Mobile West, LLC Candidate '824716 Essex' , 1855 Iowa Avenue, Riverside, Riverside County, California	First Carbon Solutions	
RI-09920		2005	Wayne H. Bonner, Marnie Aislin-Kay, and Alynne Loupe	Cultural Resource Records Search and Site Visit Results for T-Mobile Telecommunications Facility Candidate IE05098A (TM098 UCR Monopine), East Campus Drive, Riverside, Riverside County, California	Michael Brandman Associates	
RI-09990		1998	Roger D. Mason and Wayne H. Bonner	Cultural Resources Record Search And Literature Review For A Pacific Bell Mobile Services Telecommunications Facility: CM 043-18 City Of Riverside, California	Chambers Group Inc	
RI-10069		2015	Jennifer Roland	Phase I Investigation for the Verizon Wireless Islander Tower Installation Project, Riverside, Riverside County, California	NWB Enviornmental Services, LLC	33-000495, 33-002230, 33-002384, 33-012288, 33-015743, 33-019877, 33-023989
RI-10285		2017	CARRIE D. WILLS and SARAH A. WILLIAMS	CULTURAL RESOURCE RECORDS SEARCH AND SITE VISIT RESULTS FOR CELLCO PARTNERSHIP AND THEIR CONTROLLED AFFILIATES DOING BUSINESS AS VERIZON WIRELESS CANDIDATE 'HIGHLANDERS', 1080 PENNSYLVANIA AVENUE, RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA.	HELIX ENVIRONMENTAL PLANNING, INC.	33-004768, 33-007877, 33-007878
RI-10354		2001	FRED E. BUDINGER, JR.	WITH ANTENNA LICENSING FROM THE FEDERAL COMMUNICATIONS COMMISSION (FCC), VERIZON WIRELESS, INC. IS PROPOSING THE INSTALLATION OF AN UNMANNED CELLULAR TELECOMMUNICATIONS FACILITY AT THE LOCATION SPECIFIED BELOW:	TETRA TECH, INC.	
RI-10636	Other - Historic Buidling Assessment	2018	Annie McCausland	Historic Building Assessment for the University of California Riverside Plant Growth Environments Facility (PGEF) Project in the City of Riverside, Riverside County, California	Applied EathWorks Inc	33-028742

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-10645	Other - Cultural Resource Analysis for the Univeristy of California Plant Growth Environments Facility (PGEF)	2018	Joan George	Cultural Resource Analysis for the Univeristy of California Plant Growth Environments Facility (PGEF), Riverside Country, California	Applied EarthWorks	
RI-10719	Other - IE05098A	2009	AI Martinez	Proposed T-Mobile USA Candidate IE05098A (UCR Monopine) UC Riverside, Riverside, Riverside County, California	Michael Brandman Associates	

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-33-004768	CA-RIV-004768	Other - C-Riverside East-A-2; Other - P1074-81H/MFA-1H	Site	Historic	AH06	1992 (Robert J. Wlodarski, Historical, Environmental, Archaeological, Research, Team); 1999 (S. Ashkar, Jones & Stokes)	RI-03491, RI-03508, RI-03509, RI-03605, RI-03617, RI-04391, RI-04393, RI-04404, RI-04480, RI-04813, RI-05056, RI-05873, RI-08409, RI-08840, RI-10285

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-33-000495	CA-RIV-000495		Other	Prehistoric	AP04	1971 (S. Broadbent, UCR ARU)	RI-04997, RI-04998, RI-05873, RI-10069
P-33-004638	CA-RIV-004638	Other - D-2	Site	Prehistoric	AP04	1991 (Robert S. White, Archaeological Associates)	RI-03367, RI-03370
P-33-006015		Other - Insectary	Structure	Historic	HP14; HP15	1994 (C. Throne, Consulting Historian)	RI-03899, RI-05873, RI-09167
P-33-006940		Other - L. Boffing House; Other - Ser. No. 33-2507-19	Building	Historic	HP02	1982 (Jim Warner, Riverside County Historical Commission)	RI-04411
P-33-006941		Other - Ser. No. 33-2507-18	Building	Historic	HP02; HP33	1982 (Jim Warner, Riverside County Historical Commission)	
P-33-007877		Other - The Barn Group; Other - The Barn, The Barn Theater, The Barn Stable; Other - Horse Barn, The Stable; Other - Wagon Shed No. 1, Fertilizer Shed; Other - Wagon Shed No. 2, Garage & Shop	Building	Historic	HP06; HP08; HP10; HP12; HP13; HP14; HP15; HP33	1993 (Bai Tom Tang, Archaeological Research Unit, UCR)	RI-05873, RI-08577, RI-08840, RI-10285
P-33-007878		Other - University Cottage; Other - Teamsters Cottage	Building	Historic	HP06; HP14; HP15	1993 (Bai Tom Tang, Archaeological Reserch Unit, UCR)	RI-05873, RI-08577, RI-10285
P-33-008090		Other - Citrus Experiment Station; National Register - Riv-028	Site	Historic	HP06; HP08; HP14; HP15	1969 (Raymond, n/a)	RI-05873
P-33-009691			Building	Historic			
P-33-009774		Other - C-Riverside East-C-1; Other - Southern Pacific Railroad	Other	Historic	HP11	1999 (S. Ashkar, Jones & Stokes)	RI-04404, RI-05056, RI-07924
P-33-012288		Other - Highlander Church	Building	Historic	HP16	2002 (Judith Marvin and Riordan Goodwin, LSA Associates, Inc.)	RI-10069
P-33-013218		Other - CRM TECH 1018-1H	Building	Historic	HP02	2003 (Bai "Tom" Tang, CRM TECH)	

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-33-015743	CA-RIV-008196	National Register - 6Z; Other - BNSF Railroad; Other - San Jacinto Valley Railway; Other - Santa Fe Valley Railroad; Other - CRM TECH 2225-1H; Other - Burlington Northern Santa Fe Railroad; Other - 3CS; Other - SJ-32; Other - CRM TECH 2917-1; Other - CRM TECH 3084; Other - SRI-3145	Site	Historic	AH07	2005 (P.Easter. And P. Beedle, Applied EarthWorks, Inc.); 2006 (Peggy Beedle, Applied EarthWorks, Inc.); 2007 (Theodore Cooley, Jones & Stokes); 2007 (Craft, Andrea, Jones and Stokes); 2008 (Daniel Ballester, CRM TECH); 2009 (M.C. Hamilton, J. George, Applied EarthWorks, Inc.); 2010 (S. Justus and A. Giacinto, ASM Affiliates); 2011 (Joshua Trampier, Statistical Research, Inc.); 2012 (Stacie Wilson and Jill Gibson, AECOM); 2012 (C. Cotterman, E. Denniston, ECORP Consulting); 2015 (Daniel Ballester, CRM TECH); 2016 (Michael Hogan, CRM TECH)	RI-07528, RI-07833, RI-08955, RI-08980, RI-09002, RI-09021, RI-09364, RI-10069, RI-10160
P-33-019877		Other - apn 251-18-005-6	Structure	Historic	HP02; HP03; HP39	2008 (Jessica J. Auck and Shannon Loftus, Chambers Group)	RI-08620, RI-10069
P-33-028056	CA-RIV-012668	Other - GP-1; Voided - P-33-028077 [CA-RIV-012675]	Site	Historic	AH06	2017 (Breana Campbell, Rincon Consulants, Inc)	RI-09786
P-33-028798		Other - 614 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	
P-33-028801		Other - 620 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	
P-33-028802		Other - 628 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	
P-33-028804		Other - 632 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	
P-33-028806		Other - 640 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	
P-33-028807		Other - 652 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	
P-33-028808		Other - 658 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-33-028809		Other - 664 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	
P-33-028810		Other - 670 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	
P-33-028811		Other - 676 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	
P-33-028812		Other - 688 Highlander Dr.	Building	Historic	HP02	2003 (Carrie Chasteen, Myra L. Frank & Associates)	

Attachment C

Sacred Lands File Search Results

NATIVE AMERICAN HERITAGE COMMISSION

April 19, 2022

Stephanie Tang
UC Riverside

Via Email to: stephanie.tang@ucr.edu

Re: RUSD STEM Ed Center Project, Riverside County

Dear Ms. Tang:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,



Andrew Green
Cultural Resources Analyst

Attachment



CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

SECRETARY
Sara Deutschke
Miwok

COMMISSIONER
William Mungary
Paiute/White Mountain
Apache

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki,
Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

Appendix F

Preliminary Environmental Assessment Report

May 2023 | Draft Preliminary Environmental Assessment Report

STEM EDUCATION CENTER

for Riverside Unified School District

Prepared for:

Riverside Unified School District

Contact: Belen Bobadilla, Assistant Director Planning and Development
3070 Washington Street
Riverside, CA 92504
bbobadilla@riversideunified.org

Project Number:

RIV-36.0

Prepared by:

PlaceWorks

Michael Watson, PG, Senior Geologist
2850 Inland Empire Blvd, Suite B
Ontario, California 91764
909.989.4449
info@placeworks.com
www.placeworks.com





May 23, 2023

Shahir Haddad
Supervising Engineer and Agreement Coordinator
Brownfields & Environmental Restoration Program
Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, California 90630

Subject: Draft Preliminary Environmental Assessment Report – STEM Education Center

Dear Mr. Haddad:

Enclosed please find the Draft Preliminary Environmental Assessment (PEA) for the six-acre proposed STEM Education Center located on the eastern portion of the University of California Riverside Sports Complex. The proposed school site is located at the southwest corner of the intersection of Blaine Street and Canyon Crest Drive. PlaceWorks implemented a PEA at the request of the District for due diligence purposes to assist in the decision if the site would be viable for a school site. Sampling was done initially in October 2019 and additional sampling was implemented in May 2020 due to a change in project boundaries. Due to the pandemic, the project was inactive until now. PlaceWorks recommends that the District enter into an environmental oversight agreement (EOA) with the Department of Toxic Substances Control (DTSC) for the proposed school site.

Sincerely,

PLACEWORKS

A handwritten signature in blue ink that reads "Michael Watson".

Michael Watson, PG 8177
Senior Geologist

Enclosures

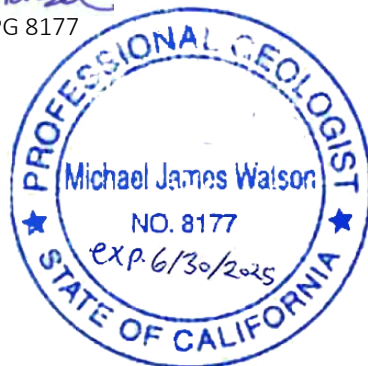


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Executive Summary

This Preliminary Environmental Assessment (PEA) Report for the proposed Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center) in the city of Riverside (City), Riverside County, California, was prepared by PlaceWorks on behalf of the Riverside Unified School District (District) pursuant to the California Education Code which requires that all new school sites or existing school sites with new construction obtain a “No Further Action” (NFA) determination from the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) prior to proceeding with acquisition and/or construction of a school. The District proposes to construct the STEM Ed Center on approximately 6-acres at the southwest corner of Blaine Street and Canyon Crest Drive. The project site is currently used as an open recreational field with two baseball diamonds, surface parking, and contains the Sprint Cell Tower and T-Mobile Cell Tower. The project site is located on assessor parcel numbers (APNs) 250-220-003 and 250-220-008. For the purposes of this analysis a 0.77-acre portion of the Gage Canal was included, but this is no longer considered to be part of the current project site.

The review of historical records show that the project site was used as an orchard from 1931 to 1953 and contained a residential dwelling from 1931 to 1985 near the northern portion of the site off Blaine Street. After 1985, the project site has been utilized for an athletic field with two baseball diamonds and two cell phone towers located on the northern area of the site near Blaine Street and a portion of the southern baseball complex parking lot. During the review of grading plans from the 1970s for the sports complex, soil from the west field was placed on the east side of the site. The Gage Canal runs underground in a north-south direction immediately west of the project site. Two cell phone towers are located on the northern area of the site. There is a license agreement with T-Mobile and University of California, Riverside (UC Riverside or UCR) and a license agreement with Sprint and the City. The cell phone towers are proposed to be decommissioned and removed from the site prior to construction of the school. No replacement cell tower is proposed for Sprint; the T-Mobile Cell Tower is proposed to be relocated west of the project site within the UCR Baseball Complex along Blaine Street. .

The District has decided to complete a PEA for the following reasons:

- Evaluate if there are any impacts from the historical agricultural activities,
- Evaluate if there are any impacts from lead-based paint and termiticides due to former historic structures.
- Evaluate if fill material identified on the site is clean.

Based on information developed during the PEA using the DTSC’s PEA Guidance Manual, the DTSC will then make an informed decision regarding potential risks posed by the site.

The field sampling program implemented for the investigation is summarized below:

Executive Summary

- Soil sampling activities were conducted at the site on October 22, 2019 for the PEA. After sampling was implemented in 2019, the project site boundaries changed to include a portion of the southern parking lot increasing the project area to approximately 6 acres plus an additional 0.77 acres of the Gage Canal. Additional soil samples were collected on May 1, 2020 in the parking lot area.
- Soil samples were collected from 25 locations from one to three depths for a total of 65 soil samples collected plus 6 duplicates. For the parking lot area, 11 additional soil samples were collected from 5 locations for a total of 76 soil samples. Samples were labeled with a 'S' if they were collected near two former structures, 'F' if fill only, and 'B' for agricultural location. The current site boundaries are approximately 6 acres, and only the six "F" locations are outside the current project site boundaries.
- Sixteen composite soil samples plus two duplicate samples were analyzed for organochlorine pesticides (OCPs) by Environmental Protection Agency (EPA) Method 8081A to assess for potential residual OCPs from historic agricultural operations, imported fill and possible termiticides used on the structures.
- Ten discrete soil samples plus two duplicates were analyzed for CAM-17 metals by EPA Method 6010B/7471A from the fill material. Twelve soil samples plus one duplicate were collected and analyzed for lead and arsenic by EPA 6010B to assess for arsenic from pesticides and lead in soil associated with the former structures.
- Ten discrete soil samples plus two duplicates were collected and analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015B from the fill material.
- Seven soil samples plus two duplicates were collected and analyzed for PCBs by EPA Method 8082.
- Five discrete soil samples plus two duplicates were collected from the fill material and analyzed for semi volatile organics (SVOCs) by EPA Method 8270SIM.
- Six soil samples plus two duplicates were collected from the fill material and analyzed for asbestos by Polarized Light Microscopy (PLM).

The results of the field program are summarized below:

- Three OCPs were detected in the composite soil samples (4,4'- dichlorodiphenyldichloroethylene [DDE], 4,4'- dichlorodiphenyltrichloroethane [DDT], and dieldrin) collected and analyzed.
 - 4,4'-DDE was detected in concentrations ranging from a minimum of 0.0023 milligrams per kilogram (mg/kg) in the 3:1 composite sample B4, B5, B6 @ 1.5'/2.0' below ground surface (bgs), collected in the native soil, to a maximum concentration of 0.027 mg/kg in the 4:1 composite sample S1, S2, S3, S4 @ 4.5' bgs, which was collected in the native soil. The EPA Region 9 Regional Screening Levels (RSLs) for 4,4'-DDE adjusted for a 2:1 composite sample

Executive Summary

is 1 mg/kg and for a 4:1 composite sample the RSL is 0.50 mg/kg. The levels of 4,4'-DDE detected are below the RSLs.

- 4,4'-DDT was detected in one 4:1 composite sample S1, S2, S3, S4 @ 4.5' bgs at a concentration of 0.0024 mg/kg. The RSL for 4,4'-DDT adjusted for a 4:1 composite sample is 0.48 mg/kg. The concentration of 4,4'-DDT detected at the site is below the RSL.
- Dieldrin was only detected in the 4:1 composite sample S1, S2, S3, S4 @ 4.5' bgs at a concentration of 0.0057 mg/kg. The RSL for dieldrin adjusted for a 4:1 composite sample is 0.0085 mg/kg. The concentration of dieldrin detected is below the RSL.
- Arsenic was detected in two out of 22 soil samples plus four duplicates analyzed with the highest concentration of arsenic detected at 1.94 mg/kg found in soil sample B8 @ 0.5', collected from fill. The Department of Toxic Substance Control (DTSC) Screening Level (SL) for arsenic is 12 mg/kg. The levels of arsenic detected are below the DTSC SL for residential exposure¹.
- Lead was detected in all 22 soil samples and three duplicate soil samples analyzed for lead. Lead concentrations ranged from a minimum of 1.76 mg/kg to a maximum concentration of 58.1 mg/kg. All lead concentrations are below the DTSC screening level of 80 mg/kg for residential exposure.
- All other metals were within typical background levels and were within screening levels and did not exceed EPA RSLs or DTSC SLs respectively.
- TPHs were not detected in any of the soil samples analyzed.
- SVOCs were not detected in any of the soil samples analyzed.
- PCBs were not detected in any of the soil samples analyzed.
- Asbestos was not detected in the soil samples analyzed.

The human health risk screening showed that chemical concentrations would not be a risk to human health or the environment under an unrestricted residential land use scenario.

Laboratory data obtained were validated to assure that Data Quality Objectives (DQOs) were met and the data were suitable for use in a human health and ecological screening evaluation.

Recommendations

The results of the PEA support the following conclusions and recommendations:

¹ Department of Toxic Substance Control (DTSC) requires the residential land use scenario be used to evaluate school sites as it is the most conservative assessment.

Executive Summary

Based on the PEA objectives, the environmental quality goals of the District, and the results of the PEA investigation, PlaceWorks has determined that no further assessment is required for the site. Therefore, PlaceWorks recommends that the PEA be finalized. Per California Education Code Section 17213.1, Section 3, PlaceWorks concludes that further assessment of the site is not necessary and is requesting approval of the PEA.

1. Introduction

This Preliminary Environmental Assessment (PEA) Report for the proposed Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center) in the city of Riverside (City), Riverside County, California, was prepared by PlaceWorks on behalf of the Riverside Unified School District (District) pursuant to the California Education Code which requires that all new school sites or existing school sites with new construction obtain a “No Further Action” (NFA) determination from the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) prior to proceeding with acquisition and/or construction of a school. The District proposes to construct the STEM Ed Center on approximately 6-acres at the southwest corner of Blaine Street and Canyon Crest Drive. The project site is currently used as an open recreational field with two baseball diamonds, surface parking, and contains the Sprint Cell Tower and T-Mobile Cell Tower. The project site is located on assessor parcel numbers (APNs) 250-220-003 and 250-220-008. For the purposes of this analysis a 0.77-acre portion of the Gage Canal was included, but this is no longer considered to be part of the current project site.

The review of historical records show that the project site was used as an orchard from 1931 to 1953 and contained a residential dwelling from 1931 to 1985 near the northern portion of the site off Blaine Street. After 1985, the project site has been utilized for an athletic field with two baseball diamonds and two cell phone towers located on the northern area of the site near Blaine Street and a portion of the southern baseball complex parking lot. During the review of grading plans from the 1970s for the sports complex, soil from the western adjacent field was placed on the east side of the site. The Gage Canal runs underground in a north south direction immediately west of the project site. Two cell phone towers are located on the northern area of the site. There is a license agreement with T-Mobile and UCR and a license agreement with Sprint and the City. The cell phone towers are proposed to be decommissioned and removed from the site prior to construction of the school. No replacement cell tower is proposed for Sprint; the T-Mobile Cell Tower is proposed to be relocated west of the project site within the UCR Baseball Complex along Blaine Street.

This PEA was prepared in accordance with the guidelines of DTSC as detailed in the Preliminary Endangerment Assessment Guidance Manual (DTSC 2015).

1.1 PEA OBJECTIVES

The District has prepared this PEA pursuant to the California Education Code that requires the completion of a Phase I Environmental Site Assessment (Phase I) or PEA, for all new school sites that will receive state funding prior to proceeding with construction of a school.

The overall objectives of this PEA are to:

- Evaluate historical information for indications of the past use, storage, disposal, or release of hazardous waste/substances at the site;

1. Introduction

- Evaluate available information for indications of naturally occurring hazardous materials at the site.
- Establish through a field sampling and analysis program the nature of hazardous wastes/substances that may be present in soil at the site, their concentration and general extent; and
- Estimate the potential threat to public health and/or the environment posed by hazardous constituents, if any, at the site using a residential land-use scenario.

Based on information developed during the PEA and the conservative human and ecological risk evaluation set forth in the DTSC's Preliminary Endangerment Assessment Guidance Manual, the DTSC will then make an informed decision regarding potential risks posed by the site.

Possible outcomes of the PEA decision include, but are not limited to, the requirement for further investigation through the Supplemental Site Investigation process if the site is found to be significantly impacted by hazardous substances release(s); the need to perform a Removal Action if localized impacts by hazardous substances release(s) are found; implementation of mitigation actions to address any potential risks; and an issuance of a "No Further Action" (NFA) finding if the site is found not to be significantly impacted and risks to human health and the environment are found to be within acceptable levels based on the conservative screening-level risk assessment.

1.2 SCOPE OF WORK

The scope of work implemented to prepare this PEA included:

- Researching available site background information regarding former and current land use;
- Implementing field and laboratory data collection and evaluation to further assess environmental conditions at the site; and
- Preparing this PEA report.

Several information sources were reviewed as part of the background research for development of this PEA report. These sources were reviewed to develop an understanding of current and past land uses and practices that may have involved the handling, use, storage, and/or disposal of hazardous substances or wastes. Information was obtained and used to develop a general site history in an attempt to identify potential sources of chemical impact, if any.

The approach utilized to perform the background research is very similar to that used in completing a Phase I under the American Society for Testing and Materials (ASTM) Practice for Environmental Site Assessments (ESAs): Phase I Assessments Process (ASTM Standard E 1527-21). Specific sources of information reviewed, and activities performed by PlaceWorks in conducting the background research included:

- Site inspections and observations of the site and surrounding area within ¼-mile (site photographs are included in Appendix A);

1. Introduction

- Review of available aerial photographs (included in Appendix B);
- Review of current U.S. Geological Survey (USGS) 7.5-minute topographic maps (included in Appendix B);
- Evaluation of environmental database list searches (included in Appendix C);
- Review of agency files at federal, state and local regulatory agencies and offices for the site;
- Review of agency files for listed facilities within ¼-mile of the site that were identified as having a potential to have impacted the site (included in Appendix C);
- Interviews with persons knowledgeable of site history and operations; and
- Collection and review of available applicable information from the District's files.

The scope for the field and laboratory investigation is discussed in Section 7. The field sampling program implemented for the investigation is summarized below:

- Soil sampling activities were conducted at the site on October 22, 2019 for the PEA. After sampling was implemented in 2019, the project site boundaries changed to include a portion of the southern parking lot increasing the project area to approximately 6 acres plus an additional 0.77 acres of the Gage Canal. Additional soil samples were collected on May 1, 2020 in the parking lot area.
- Soil samples were collected from 25 locations from one to three depths for a total of 65 soil samples collected plus 6 duplicates. For the parking lot area, 11 additional soil samples were collected from 5 locations for a total of 76 soil samples. Samples were labeled with a 'S' if they were collected near the two former structures, 'F' if from the fill material only, and 'B' for agricultural location. The current site boundaries are approximately 6 acres, and only the six "F" locations are located outside of the current site boundaries.
- Sixteen composite soil samples plus two duplicate samples were analyzed for organochlorine pesticides (OCPs) by EPA Method 8081A to assess for potential residual OCPs from historic agricultural operations, imported fill and possible termiticides used on the structures.
- Ten discrete soil samples plus two duplicates were analyzed for CAM-17 metals by EPA Method 6010B/7471A from the fill material. Twelve soil samples plus one duplicate were collected and analyzed for lead and arsenic by EPA 6010B to assess for arsenic from pesticides and lead in soil associated with the former structures.
- Ten discrete soil samples plus two duplicates were collected and analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015B from the fill material.

1. Introduction

- Seven soil samples plus two duplicates were collected and analyzed for PCBs by EPA Method 8082.
- Five discrete soil samples plus two duplicates were collected from the fill material and analyzed for semi volatile organics (SVOCs) by EPA Method 8270SIM.
- Six soil samples plus two duplicates were collected from the fill material and analyzed for asbestos by Polarized Light Microscopy (PLM).

The results of the field program are summarized in the Executive Summary and the Conclusions and Recommendations section of this report.

1.3 PEA REPORT FORMAT

This PEA Report is organized in general accordance with the format presented in Chapter 3 of the DTSC's PEA Guidance Manual. This PEA Report contains the following sections:

- Section 1 presents an Introduction and Summary of PEA Objectives and PEA Report Format;
- Section 2 presents a Site Description of the proposed site;
- Section 3 includes Site History and Background Information;
- Section 4 includes Regulatory Status;
- Section 5 defines the Apparent Problem;
- Section 6 contains a description of the Site Environmental Setting;
- Section 7 presents a discussion of Sampling Activities and Results;
- Section 8 includes the Human Health Screening Evaluation Statement;
- Section 9 presents the Ecological Screening Evaluation Statement;
- Section 10 includes a summary of Quality Assurance Project Plan (QAPP) measures;
- Section 11 describes Health and Safety Plan (HASP) implementation;
- Section 12 summarizes variances from the proposed sampling plan;
- Section 13 presents a discussion of Applicable or Relevant Laws and Regulation Pertaining to School Sites;
- Section 14 presents Conclusions and Recommendations of the PEA; and

1. Introduction

- Section 15 lists References cited in the document.

The appendices to this PEA Report include:

Appendix A – Site Photographs;

Appendix B – Research Documentation;

Appendix C – Environmental Database Search Report;

Appendix D – Health and Safety Plan;

Appendix E – Laboratory Reports;

Appendix F – QAPP

1. Introduction

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2. Site Description

This section describes the location and ownership of the site as well as other pertinent details required by DTSC regarding the specifics of the site description. The project site currently consists of two parcels totaling approximately 6 acres. For the sake of this analysis, 0.77-acres of the Gage Canal were included since improvements to this area are planned, however this land will not be part of the Project Site. The project site is in Section 19 of Township 2 South, Range 4 West of the San Bernardino Base Line and Meridian. Figure 1, *Site Location*, provides a map depicting the general location of the site. Figure 2, *Aerial Photograph*, shows the site and the surrounding area. Figure 3, *Site Plan*, is a depiction of the proposed project site showing the proposed project site boundaries. Figure 4, *Sampling Locations*, is an aerial photograph of the proposed project site showing the sampling locations.

From at least 1931 to 1953 the project site was utilized for an orchard with residential dwelling present (possible house) near the northern boundary of the project site and an elongated shed (barn) on the northeast corner of the project site. The structures remained on the project site until approximately 1985 until the site is occupied by the UC Riverside Baseball Complex. There have been no identified manufacturing activities at the project site or adjacent to the project site. The project area currently consists of open recreational field with two baseball diamonds, two cell phone towers on the north side and an asphalt paved parking lot with landscaping on the south side of the project area.

The review of historical records show that the project site was used as an orchard from 1931 to 1953 and contained a residential dwelling from 1931 to 1985. After 1985, the project site has been utilized for an athletic field with two baseball diamonds and two cell phone towers located on the northern area of the site near Blaine Street. During the review of grading plans from the 1970s for the sports complex, soil from the western adjacent field was placed on the east side of the site. The Gage Canal runs in a north-south direction immediately west of the project site. Two cell phone towers are located on the northern area of the site. There is a license agreement with T-Mobile and UCR and a license agreement with Sprint and the City. The cell phone towers are proposed to be decommissioned and removed from the site prior to construction of the school. No replacement cell tower is proposed for Sprint; the T-Mobile Cell Tower is proposed to be relocated west of the project site within the UCR Baseball Complex along Blaine Street.

Existing surrounding uses to the project site include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Existing uses on Canyon Crest Drive include the mostly undeveloped North District Development area located to the east²; Falkirk Apartments for student housing and a portion of the underground Gage Canal to the south; REACH Leadership STEAM Academy, a church,

² The UCR North District Development (NDD) Phase I located at the southeastern portion of the NDD area, which includes approximately 1,500 student beds, was completed Summer 2021. Construction of the future phases of the North District area (e.g., residence hall beds, apartment beds, dining facilities, recreation) will be determined at a later date pending demand and funding.

2. Site Description

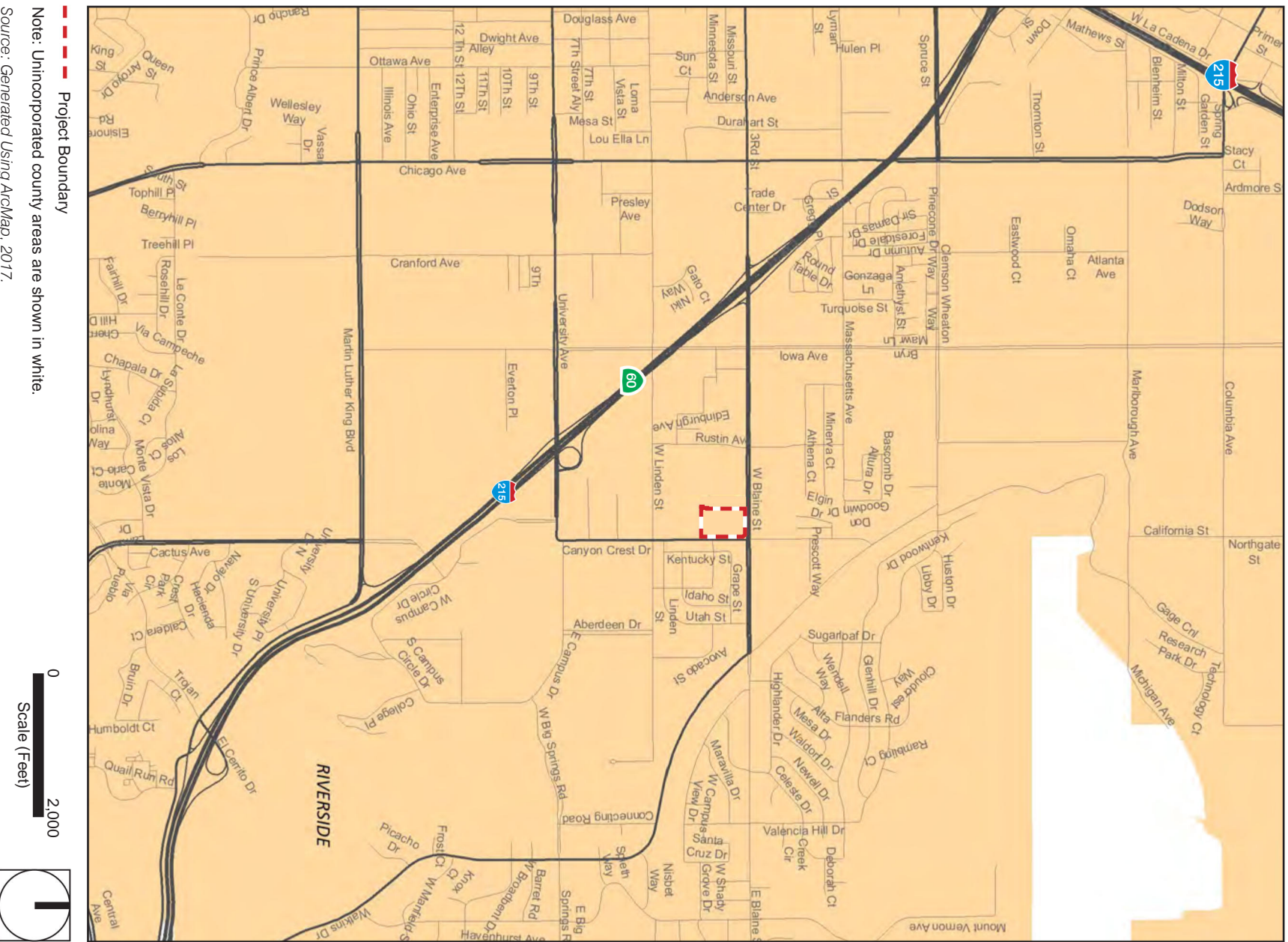
and a portion of the underground Gage Canal to the southwest; and the UCR Baseball Complex and a portion of the underground Gage Canal to the west.

2.1 DESCRIPTION AND LOCATION

2.1.1 Site Name

The project site has been identified by the District as the Proposed STEM Education Center. Currently, the project site is part of an area known as the UC Riverside Baseball Complex. The project site had been used for agricultural purposes from at least 1931 to around 1985. Since 1985, the project site has been used as an athletic complex.

Figure 1 - Site Location



2. Site Description

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Figure 2 - Aerial Photograph



— — Project Boundary

0 200
Scale (Feet)

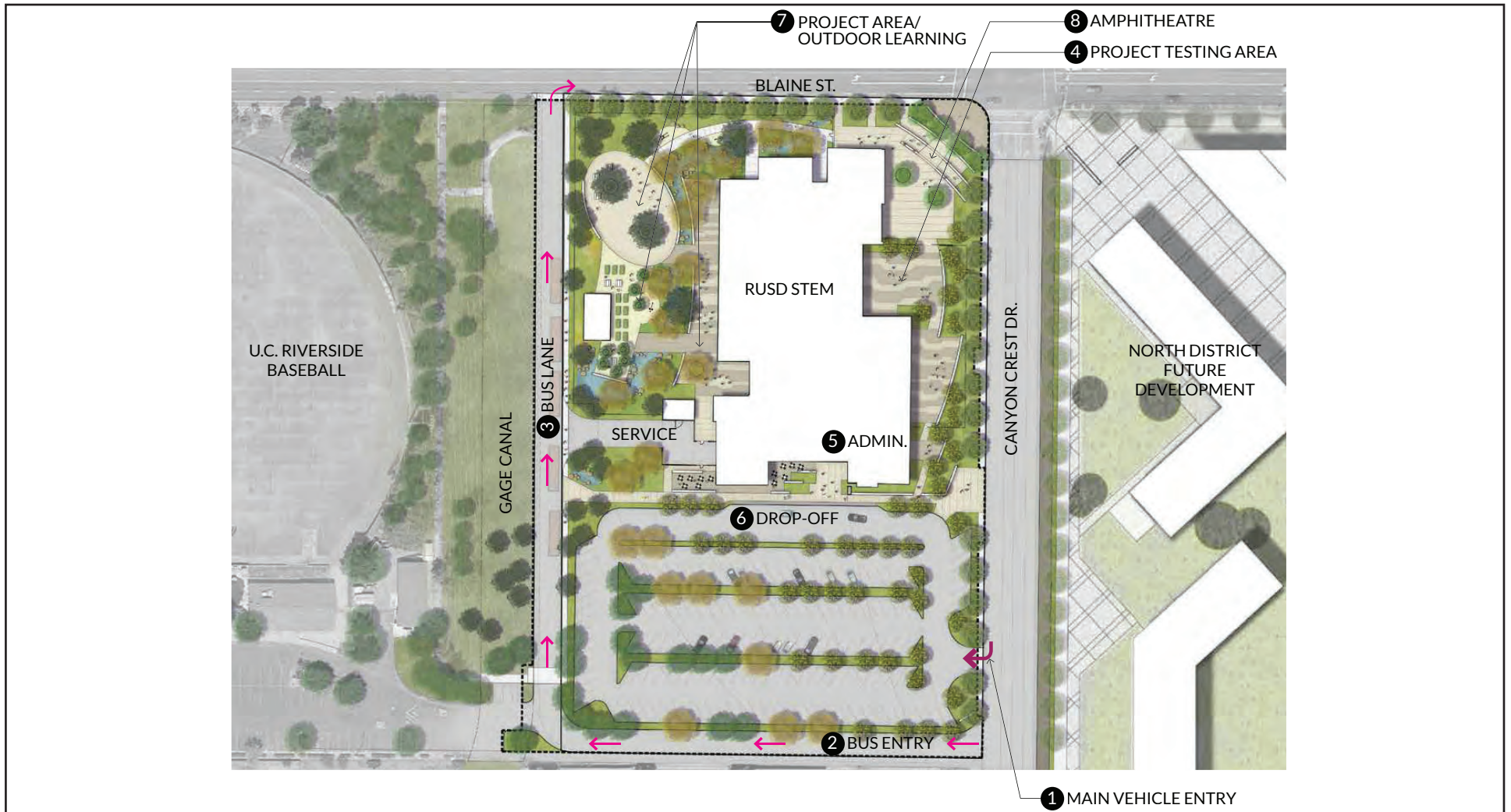


Source: Nearmap, Ltd., 2019.

2. Site Description

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Figure 3 - Site Plan



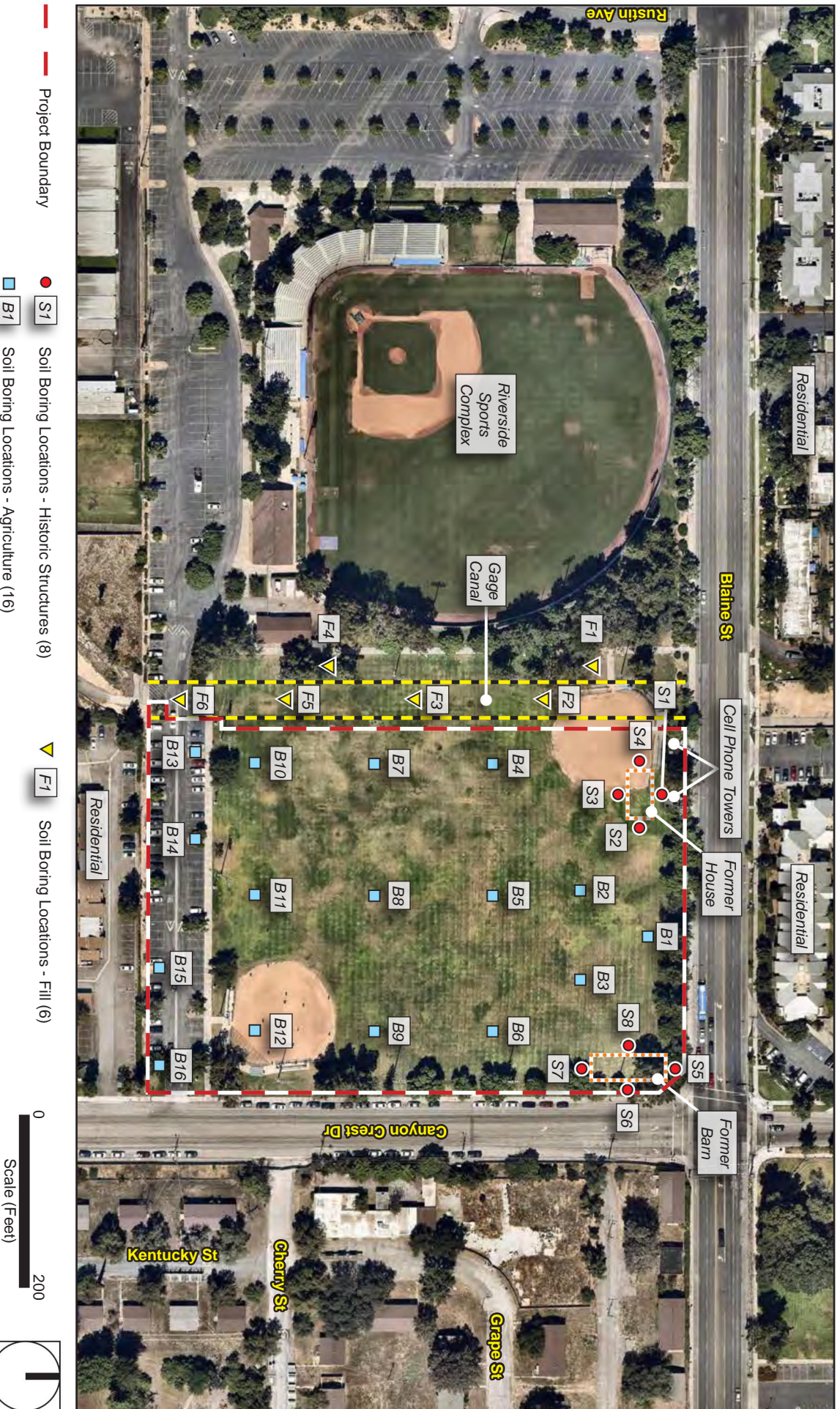
0 200
Scale (Feet)



2. Site Description

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Figure 4 - Sample Locations



Source: Neamap, Ltd., 2019.

2. Site Description

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2. Site Description

2.1.2 Site Address

The project site is located in the City of Riverside, Riverside County, California at approximately 33.9820 degrees north latitude and 117.3324 degrees west longitude (Figure 1). Figure 1, *Site Location*, provides a map depicting the general location of the project, which is identified with the Assessor's Parcel Numbers [APNs] 250-220-003 and -008. The University of California identifies the site address for the project site as 956 Blaine Street, Riverside, California 92507. The project site is located at the southwest corner of the intersection of Blaine Street and Canyon Crest Drive.

2.1.3 Designated Contact Person

Gaby Adame is the Contact Person designated by the District.

2.1.4 Mailing Address

The mailing address for the project designated by the District is:

Riverside Unified School District
3070 Washington Street
Riverside, CA 92504

2.1.5 Other Site Names

No other site names were identified for the proposed school site.

2.1.6 U.S. Environmental Protection Agency (USEPA) Identification Number

The project site does not have a USEPA identification number.

2.1.7 EnviroStor Database Number

The project site does not have an EnviroStor database number.

2.1.8 Assessor's Parcel Number(s)

The school site is located within the Assessor Parcel Numbers [APNs] 250-220-003 and 250-220-008. The APN map is included in Appendix B. The table below lists the APNs for the project site, general description and approximate acreage.

APN	Description
250-220-003	Sprint Cell Tower – approximately 0.26 acres
250-220-008	Majority of project site; open recreational field with two baseball diamonds, T-Mobile Cell Tower, and surface parking – approximately 5.65 acres

2. Site Description

2.1.9 Site Maps and Photographs

A vicinity map depicting the project site and surrounding area and an aerial photograph showing current site conditions are included as Figures 1 and 2, respectively. The site plan is shown in Figure 3. Site photographs are included in Appendix A. Historic topographic maps and historic aerial photographs of the project site are included in Appendix B.

3. Site History and Background Information

3.1 CURRENT AND HISTORICAL LAND USES

3.1.1 Facility Ownership/Operators

The project site includes Assessor Parcel Number (APN) 250-220-003, which is owned by the City of Riverside and APN 250-220-008, which is owned by UCR. The site has been used as a sports complex since 1985. UCR leases the parking lot to City of Riverside. There is a license agreement with T-Mobile and UCR and a license agreement with Sprint and the City.

3.1.2 Years of Operation and Business Type

The project site had been utilized for agricultural purposes from at least 1931 to around 1953. From 1931 to around 1953 there was an orchard on the site along with a residential structure and barn. From 1966 to 1985, the project site appears to have been fallow land with the house and barn. From 1985 to the present, the project site has been used as an athletic field. No manufacturing or commercial activities were identified in the review of historical documents.

3.1.3 Business/Manufacturing Activities

Based on a review of historical documents, no manufacturing activities have occurred on the project site. The project site is currently used as an open recreational field with two baseball diamonds, surface parking, and contains the Sprint Cell Tower and T-Mobile Cell Tower.

3.2 SURROUNDING PROPERTY LAND USES

Existing surrounding uses to the project site include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Existing uses on Canyon Crest Drive include the mostly undeveloped North District Development area located to the east³; Falkirk Apartments for student housing and a portion of the underground Gage Canal to the south; REACH Leadership STEAM Academy, a church, a portion of the underground Gage Canal to the southwest; and the UCR Baseball Complex and a portion of the underground Gage Canal to the west. No manufacturing activities were identified on the adjacent parcels.

Section 17213 of the California Education Code and Section 21151.8 of the California Public Resources Code prohibit construction of a school upon a current or former hazardous waste disposal site or solid waste disposal

³ The UCR North District Development (NDD) Phase I located at the southeastern portion of the NDD area, which includes approximately 1,500 student beds, was completed Summer 2021. Construction of the future phases of the North District area (e.g., residence hall beds, apartment beds, dining facilities, recreation) will be determined at a later date pending demand and funding.

3. Site History and Background Information

site. Based on information reviewed for preparation of this PEA Report, the proposed school site is not located on a current or former disposal site.

3.3 PAST USAGE OF THE SITE

Past usage of the site was assessed through a review of aerial photographs and topographic maps. Copies of the aerial photographs and topographic maps are included in Appendix B. Based on a review of aerial photographs and historical topographic maps the project site was used for an orchard from approximately 1931 to about 1953. From at least 1931 to 1985, the project site also contained a residential unit and an associated structure. After 1985, the project site has been utilized for an athletic field. Two cell phone towers are located on the northern area of the site. There is a license agreement with T-Mobile and UCR and a license agreement with Sprint and the City.

3.3.1 Aerial Photographs

Aerial photographs for the project site obtained from EDR for the years 1931, 1938, 1949, 1953, 1966, 1968, 1975, 1978, 1985, 1989, 1994, 2005, 2006, 2009, 2010, and 2012 were reviewed for the project site. Copies of the aerial photographs are included in Appendix B.

- 1931 – Site: A residential dwelling was located on the northern portion of the site, and an elongated shed (barn) is located on the northeast corner of the site. Orchards were located on the site.
 - Off-Site: Orchards were located to the north, south, west (after the Gage Canal and narrow strip of vacant land) and northeast of the site. The north-south oriented Gage Canal was an open uncovered canal west of the site. Vacant land was located east of the site. Present day Blaine Street and Canyon Crest Drive appear as dirt roads.
- 1938 – Site: The site appears relatively unchanged in comparison to the 1931 aerial photograph.
 - Off-Site: The portion of Blaine Street west of the Gage Canal appears to be paved and Blaine Street north of the site remains as a dirt road. The rest of the adjoining properties appear relatively unchanged in comparison to the 1931 aerial photograph.
- 1949 – Site: The site appears to be relatively unchanged in comparison to the 1938 aerial photograph.
 - Off-Site: Blaine Street and present-day Canyon Crest Drive appear to be paved. Land to the east of present-day Canyon Crest Drive appears to be under construction for military family housing. The rest of the adjoining properties appear relatively unchanged in comparison to the 1938 aerial photograph.
- 1953 – Site: Most of the orchard on site is no longer apparent. About 10 trees remain from the orchard along the eastern side of the residential property.

3. Site History and Background Information

- Off-Site: The adjoining land to the east across present-day Canyon Crest Drive appears to be used for military family housing. The orchard to the south is no longer apparent east of the Gage Canal. The rest of the adjoining properties appear relatively unchanged in comparison to the 1949 aerial photograph.
- 1966 – Site: The site has no remaining trees from the orchard. The remainder of the site appears to be relatively unchanged in comparison to the 1953 aerial photograph.
 - Off-Site: Orchards are no longer located to the north, northeast and west of the site. A church is located northeast of the site. The rest of the adjoining properties appear relatively unchanged in comparison to the 1953 aerial photograph.
- 1968 – Site: The site appears to be relatively unchanged in comparison to the 1966 aerial photograph.
 - Off-Site: No orchards are left on adjoining land south of the site. The rest of the adjoining properties appear relatively unchanged in comparison to the 1966 aerial photograph.
- 1975 – Site: The elongated shed (barn) is no longer apparent on the northeast corner of the site. The remainder of the site appears to be relatively unchanged in comparison to the 1968 aerial photograph.
 - Off-Site: No orchards are left on adjoining land northwest of the site. The Gage Canal now appears to be underground. The rest of the adjoining properties appear relatively unchanged in comparison to the 1968 aerial photograph.
- 1978 – Site: The site appears to be relatively unchanged in comparison to the 1975 aerial photograph.
 - Off-Site: Multi-family residential dwellings are under construction northwest of the site. A baseball field is located west of the site. The rest of the adjoining properties appear relatively unchanged in comparison to the 1975 aerial photograph.
- 1985 – Site: The residential dwelling is no longer apparent on the site. The site is developed with athletic fields on the north and a parking lot along the southern boundary.
 - Off-Site: Multi-family residential dwellings are apparent south of the site, east of the Gage Canal. The rest of the adjoining properties appear to be relatively unchanged in comparison to the 1978 aerial photograph.
- 1989 – Site: The site appears relatively unchanged in comparison to the 1985 aerial photograph.
 - Off-Site: The surrounding land appears to be relatively unchanged in comparison to the 1985 aerial photograph.
- 1994 – Site: The site appears relatively unchanged in comparison to the 1989 aerial photograph.

3. Site History and Background Information

- Off-Site: The surrounding land appears to be relatively unchanged in comparison to the 1989 aerial photograph.
- 2005 – Site: The site appears relatively unchanged in comparison to the 1994 aerial photograph.
 - Off-Site: Multi-family residential dwellings are apparent north of the site, across Blaine Street. The remaining surrounding land appears to be relatively unchanged in comparison to the 1994 aerial photograph.
- 2006 – The site and adjoining land appear relatively unchanged in comparison to the 2005 aerial photograph.
- 2009 – The site and adjoining land appear relatively unchanged in comparison to the 2006 aerial photograph.
- 2010 – The site and adjoining land appear relatively unchanged in comparison to the 2009 aerial photograph.
- 2012 – The site and adjoining land appear relatively unchanged in comparison to the 2010 aerial photograph.

3.3.2 Historical Topographic Maps

Historical Topographic Maps obtained from EDR for the years 1901, 1938/1942, 1942/1947, 1953/1954, 1967, 1980, and 2012. Copies of the topographic maps are included in Appendix B.

- 1901– The Gage Canal is depicted west of the project site. Blaine Street is depicted, but not labeled.
- 1938/1942 –The project site and surrounding areas appear relatively unchanged in comparison to the 1901 topographic map. The University of California Citrus Experiment Station is located to the southeast of the site.
- 1942/1947 – The project site appears relatively unchanged in comparison to the 1942 topographic map. Canyon Crest Heights is depicted east of the site.
- 1953/1954 – The project site is depicted with orchards and a residential dwelling along Blaine Street. Surrounding areas to the north, south, west and northeast are depicted with orchards. The University of California Citrus Experiment Station is now labeled as the University of California at Riverside. The remaining adjoining areas appear unchanged in comparison with the 1947 topographic map.
- 1967 – The project site is no longer depicted with an orchard. An elongated shed is depicted on the northeast corner of the site. A church is depicted northeast of the project site, and orchards are no longer

3. Site History and Background Information

depicted to the northeast, to the north east of the Gage Canal, to the west, and to the south east of the Gage Canal.

- 1980 – The elongated shed is no longer depicted on the northeast corner of the project site. No orchards are depicted on adjoining land. The remaining areas appear unchanged in comparison to the 1967 topographic map.
- 2012 –The project site and surrounding areas are not depicted with any structures. The remaining areas appear unchanged in comparison to the 1980 topographic map.

3.3.3 Sanborn Maps

EDR indicated that there are no Sanborn Fire Insurance Maps available for the project site and surrounding area. A copy of the Certified Sanborn Map Report is included in Appendix B.

3.4 PAST USAGE OF ADJOINING PROPERTIES

Past usage of the adjoining properties was assessed through a review of aerial photographs, historical topographic maps and site visit. Copies of historical references reviewed are included in Appendix B.

Based on the review and site visit, surrounding uses include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Existing uses on Canyon Crest Drive include the mostly undeveloped North District Development area located to the east⁴; Falkirk Apartments for student housing and a portion of the Gage Canal to the south; REACH Leadership STEAM Academy, a church, a portion of the Gage Canal to the southwest; and the UCR Baseball Complex and Gage Canal to the west. No manufacturing activities were identified on the adjacent parcels. The surrounding areas of the project site were used for agricultural purposes from at least the 1930s through the 1960s with residential development for the University occurring in the late 1940s.

3.5 HAZARDOUS SUBSTANCE/WASTE MANAGEMENT INFORMATION

3.5.1 Records Review

3.5.2 Site Owner/Operator Records

Site owner/operator records were not reviewed.

⁴ The UCR North District Development (NDD) Phase I located at the southeastern portion of the NDD area, which includes approximately 1,500 student beds, was completed Summer 2021. Construction of the future phases of the North District area (e.g., residence hall beds, apartment beds, dining facilities, recreation) will be determined at a later date pending demand and funding.

3. Site History and Background Information

3.5.3 State of California Geologic Energy Management Division Records

Based on a review of the California Department of Conservation Geologic Energy Management Division (CalGEM) Well Finder website, there are no oil or gas wells within the project site or within 300 feet of the project site (CalGEM 2022). The closest oil well is over 3.9 miles northeast of the project site. The well is identified as a plugged and abandoned well that was advanced by Floyd Amundson. The project site is not located on an oil field.

3.6 SITE INSPECTION RESULTS

A site visit to observe site conditions was conducted by PlaceWorks on October 18, 2022. No weather-related conditions or other conditions that would limit our ability to observe the site occurred during our site reconnaissance.

Summarized below are observations relative to specific physical features identified in the PEA Guidance Manual and site photographs are included as Appendix A.

3. Site History and Background Information

Physical Feature	Observations
Site boundaries:	The project site consists of approximately 6-acres comprised of the eastern portion of the UC Riverside Baseball Sports Complex located on Assessor's Parcel Number [APN] 250-220-003 and 250-220-008 in City of Riverside, Riverside County, CA. The site is bordered by Blaine Street on the north followed by residential housing; Canyon Crest Drive on the east followed vacant land and student housing; student housing to the south and a portion of the underground Gage Canal; REACH Leadership STEAM Academy and a portion of the underground Gage Canal to the southwest; and underground Gage Canal and the baseball stadium on the west followed by parking.
Locations and boundaries of all onsite operations (present and past):	Based on a review of aerial photographs, the project site had been utilized for agricultural purposes from at least 1931 to around 1953. From 1931 to 1985, the project site has also had a residential dwelling unit. From 1985 to the present, the project site has been used as an athletic field consisting of two baseball diamonds, two cell phone towers, and associated parking on the south.
Foundations of former structures:	None noted by PlaceWorks. There are currently no buildings within the proposed project site boundaries. Two cell phone towers are located on the north near Blaine Street that are fenced. There is field lighting for the baseball fields located around the perimeter of the site.
Storage tanks and storage areas:	None noted by PlaceWorks
Odors:	None noted by PlaceWorks.
Pools of liquid:	None noted by PlaceWorks.
Electrical or hydraulic equipment known or likely to contain PCBs:	None noted by PlaceWorks.
Unidentified substance containers (including empty drum storage):	None noted by PlaceWorks
Stained soil and pavement, corrosion, and degradation of floors and walls:	None noted by PlaceWorks.
Drains and Sumps:	None noted by PlaceWorks.
Pits, ponds, and lagoons:	None noted by PlaceWorks.
Surface drainage pathways:	None noted by PlaceWorks.
Stressed vegetation (from other than insufficient water):	None noted by PlaceWorks.
Solid waste and wastewater:	None noted by PlaceWorks.
Wells (including dry wells, irrigation wells, injection wells):	None noted by PlaceWorks.
Septic systems:	None noted by PlaceWorks.
Overhead electrical lines:	None noted by PlaceWorks. Overhead electrical lines are located on the north side of Blaine Street and the far side of Canyon Crest Drive.
High-pressure gas or fuel transmission lines:	No high-pressure gas pipelines were identified as being located on the site based on visual observations, and agency responses.

3.6.1 Prior Assessments/Remediation

No prior assessments or remediation were identified for this PEA by PlaceWorks. Old grading plans were reviewed from the 1970s which showed that soil from the western side of the Riverside Sports Complex was placed on the eastern side of the sports complex including the project site. The grading plan for the sports complex is included in Appendix B.

3. Site History and Background Information

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4. Regulatory Status

4.1 STANDARD ENVIRONMENTAL RECORDS REVIEW

PlaceWorks utilized the electronic database service EDR to complete an environmental records review for the project site. The database search was used to identify properties that may be listed in the referenced Agency records, located within the American Society for Testing and Materials (ASTM)-specified search radii indicated below:

Database	Approximate Search Distance	Subject Site Listed?	Number of Sites within Search Area
Federal NPL (Superfund) Sites	1 mile	No	0
Federal Delisted NPL Sites	1 mile	No	0
Federal sites subject to CERCLA removals and CERCLA	0.5 mile	No	0
Federal CERCLA sites with NFRAP	0.5 mile	No	1
Federal RCRA facilities undergoing Corrective Action	1 mile	No	1
Federal RCRA TSD facilities	0.5 mile	No	1
Federal RCRA generators	0.25 mile	No	1
Federal institutional controls / engineering controls registries	0.5 mile	No	0
Federal ERNS list	Site and Adjoining	No	6
State- and tribal (Superfund) equivalent sites	1 mile	No	0
State- and tribal hazardous waste facilities	1 mile	No	5
State- and tribal landfills and solid waste disposal facilities	0.5 mile	No	0
State- and tribal leaking storage tanks	0.5 mile	Yes	16
State- and tribal registered storage tanks	0.25 mile	No	02
State- and tribal voluntary cleanup sites	0.5 mile	No	0
State- and tribal brownfield sites	0.5 mile	No	0
Orphan Site List	Site and Adjoining	No	2
HAZNET	Site only	No	1

A review of selected regulatory agency databases for documented environmental concerns on the project site, or in close proximity to the project site, was conducted by EDR Lightbox. A copy of the radius report, dated September 9, 2022 is included in Appendix C. The project site was not identified in any of the databases reviewed by EDR and further discussed below.

4.1.1 Federal NPL (Superfund) Sites

The National Priorities List (NPL) is a list of contaminated sites that are considered the highest priority for clean-up by the EPA.

- The project site is not listed on the NPL database.

4. Regulatory Status

- The database search did not identify any NPL facilities within one mile of the project site.

4.1.2 Federal Delisted NPL Sites

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425 (e), sites may be deleted from the NPL where no further response is appropriate.

- The project site is not listed on the delisted NPL List.
- The database did not identify any delisted NPL sites within a mile radius of the project site.

4.1.3 Federal sites subject to CERCLA removals and CERCLA Sites

The Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) list identifies sites which are suspected to have contamination and require additional investigation to assess if they should be considered for inclusion on the NPL.

- The project site is not listed on the CERCLIS database.
- The database search did not identify any CERCLIS listings within a half mile radius of the site.

4.1.4 Federal CERCLA sites with NFRAP

CERCLIS-NFRAP status indicates that a site was once on the CERCLIS List but has No Further Response Actions Planned (NFRAP). Sites on the CERCLIS-NFRAP List were removed from the CERCLIS List in February 1995 because, after an initial investigation was performed, no contamination was found, contamination was removed quickly, or the contamination was not significant enough to warrant NPL status.

- The project site is not listed on the CERCLIS-NFRAP database.
- The database search identified one CERCLIS-NFRAP sites within a half mile of the project site.
 - UCR campus, approximately 0.365-miles south southeast of the project site, is listed due to pesticide impacted soil from the agricultural research station and is listed as under control and that current exposures are under control. The DTSC's EnviroStor page indicates that the site can be considered closed. Based on the details of the case and regulatory status, it is not expected to have an impact on the project site.

4.1.5 Federal RCRA facilities undergoing Corrective Action

The Resource and Conservation Recovery Act (RCRA) CORRACTS Facilities list catalogues facilities that treat, store, or dispose of hazardous waste and have been associated with corrective action activity.

4. Regulatory Status

- The project site is not listed on the RCRA CORRACTS Facilities list.
- The database search identified one RCRA CORRACTS Facilities within one mile of the project site.
 - UCR campus, approximately 0.365-miles south southeast of the project site. The DTSC indicates on the EnviroStor page for the site that the case was not a RCRA site and is considered closed. Based on the details of the case and regulatory status, it is not expected to have an impact on the project site.

4.1.6 Federal RCRA TSD Facilities

The RCRA non-CORRACTS TSD Facilities list tracks facilities which treat, store, or dispose of hazardous waste and are not associated with corrective action activity.

- The project site is not listed on the RCRA non-CORRACTS TSD Facilities list.
- The database search identified one RCRA non-CORRACTS TSD facilities within a half mile radius of the project site.
 - UCR campus, approximately 0.365-miles south southeast of the project site. The DTSC indicates on the EnviroStor page for the site that the case was not a RCRA site and is considered closed. Based on the details of the case and regulatory status, it is not expected to have an impact on the project site.

4.1.7 Federal RCRA Generators

The RCRA Generators list is maintained by the USEPA to track facilities that generate hazardous waste.

- The project site is not listed as a RCRA Generator facility.
- The database search identify one RCRA Generator within a quarter mile radius of the project site.
 - UCR campus, approximately 0.365-mile south southeast of the project site, is listed as a large quantity generator of hazardous waste. A violation in 2014 is noted on the EPA's Enforcement and Compliance History (ECHO) website. The violation is listed as 262.C, which is related to pre-transportation requirements for generators as covered in 40 CFR 262 Subpart C which details packing, labeling, marking, and placarding.

4.1.8 Federal Institutional Control / Engineering Controls

A listing of sites with institutional and/or engineering controls in place is maintained by the EPA. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use

4. Regulatory Status

restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

- The project site is not listed as having an institutional or engineering control.
- The database search did not identify any institutional or engineering control sites within a half mile radius of the site.

4.1.9 Federal ERNS List

The Federal Emergency Response Notification System (ERNS) list tracks information on reported releases of oil and hazardous materials.

- The project site is not listed on the ERNS database.

4.1.10 State-and-tribal equivalent NPL

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

- The project site is not listed on state- and tribal-equivalent NPL.
- The database search did not identify any state-and tribal equivalent NPL sites within a one-mile radius of the project site.

4.1.11 State-and-tribal Hazardous Waste Facilities

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

- The project site is not listed on the State-and-tribal equivalent CERCLIS List.
- The database identified five state-and tribal-equivalent CERCLIS facilities within a mile radius of the project site.
 - Student Recreation Center Expansion at 900 University Avenue, approximately 0.365-mile south southeast of the project site, is listed as part of the DTSC – Site Cleanup Program due

4. Regulatory Status

to being a former ISD Facility and is listed as being referred to another agency as of June 31, 1998. Based on the regulatory status, it is not expected to have had an impact.

- Valerion Corporation at 2280 Iowa Avenue, approximately 0.570-miles northwest of the project site, is a historical site that is listed as being referred to another agency as of August 12, 1988. Based on the overall distance and its downgradient location from the project site, the facility is not expected to have had an impact on the project site.
- Thermoclad Company at 1541 7th Street, approximately 0.652-miles southwest of the project site, is listed as part of the DTSC – Site Cleanup Program due to historic manufacturing and is listed as inactive needing evaluation as of March 6, 2006. Based on the overall distance and downgradient location from the project site, it is not expected to have had an impact.
- The site at the southwest corner of Watkins Drive and Valencia Hill Drive, approximately 0.767-miles east of the project site., is listed as a site that was evaluated as a proposed school site for the STEM Education Center. The site was eventually removed from consideration. The case is listed as receiving a No Further Action determination as of July 27, 2018. Based on the overall distance and current regulatory status, it is not expected to have had an impact.
- California Spray Chemical Company at 3530 Chicago Avenue, approximately 0.802-miles west southwest of the project site, is listed as part of the DTSC – Site Cleanup Program due to historic manufacturing and is listed as inactive needing evaluation as of March 6, 2006. Based on the overall distance and downgradient location from the project site, it is not expected to have had an impact.

4.1.12 State and Tribal- equivalent Landfill and/or Solid Waste Disposal Sites

The database search did not identify any State Landfills or Solid Waste Disposal Sites within a one-half mile radius of the project site.

- The project site is not listed on state- and tribal- equivalent landfill and/or solid waste disposal site lists.
- The database did not identify any state-and tribal equivalent landfill and/or solid waste disposal site within a half mile radius of the project site.

4.1.13 State and Tribal Leaking Underground Storage Tanks (LUSTs)

The State Water Resources Control Board's Leaking Underground Storage Tank Information System contains an inventory of LUST Incident Reports.

- The project site is not listed on the LUST database.
- The database identified sixteen LUST facilities within a half-mile radius of the project site.

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- UC Riverside Steam Plant at 3401 Watkins Drive, approximately 0.365-miles south southeast of the project site, is listed because of a leak of heating oil/fuel oil reported May 23, 1995. The case is currently listed as completed case closed as of March 18, 1998. Based on the current regulatory status, this facility is not expected to have had an impact on the project site.
- E-Z Serve #070135 at 811 Blaine Street, approximately 0.114-miles northeast of the project site, is listed because of a leak of gasoline reported December 29, 1986. The case is currently listed as completed case closed as of January 14, 1992. Based on the current regulatory status, this facility is not expected to have had an impact on the project site.
 - Alta-Dena Drive in 571 is the same case as E-Z Serve. This case is listed twice in the EDR report.
- Chevron #9-8260 at 1011 University Avenue, approximately 0.368-miles south of the project site, is listed because of a leak of gasoline reported August 20, 1991. The case is currently listed as completed case closed as of May 1, 1992. Based on the current regulatory status, this facility is not expected to have had an impact on the project site.
- Grove 186 at Cole Street, approximately 0.311-miles southwest of the project site, is listed because of a leak of diesel reported August 10, 1988. The case is currently listed as completed case closed as of December 11, 1989. Based on the current regulatory status and its downgradient location, this facility is not expected to have had an impact on the project site.
- Mobil #18-402 at 1147 University Avenue, approximately 0.381-miles southwest of the project site, is listed because of a leak of gasoline reported January 11, 1999. The case is currently listed as completed case closed as of January 13, 2011. Based on the current regulatory status and its downgradient location, this facility is not expected to have had an impact on the project site.
 - Rashid's Inc., DBA University Mobil is the same case as Mobil #18-402. This case is listed twice in the EDR report.
- Texaco Service Station #120593 at 1300 Blaine Street, approximately 0.320-miles west of the project site, is listed because of a leak of gasoline reported June 12, 2002. The case is currently listed as completed case closed as of May 18, 2005. Based on the current regulatory status and its downgradient location, this facility is not expected to have had an impact on the project site.
 - Exxon Service Station #2899 is the same case as Texaco Service Station. This case is listed three times in the EDR report.
- UCR Shell at 3261 Iowa Avenue, approximately 0.320-miles west of the project site, is listed because of a leak of gasoline reported November 17, 2004. The case is currently listed as

4. Regulatory Status

completed case closed as of April 7, 2006. Based on the current regulatory status and its downgradient location, this facility is not expected to have had an impact on the project site.

- Blaine Shell and Shell Iowa Avenue are the same case as UCR Shell. This case is listed three times in the EDR report.
- University of California, Riverside at 1160 University Avenue, approximately 0.428-miles southwest of the project site, is listed because of a leak. The case is currently listed as completed case closed as of March 21, 2018. Based on the current regulatory status and its downgradient location, this facility is not expected to have had an impact on the project site.
- Texaco Service Station at 1221 University Avenue, approximately 0.416-miles southwest of the project site, is listed because of a leak of gasoline reported July 3, 1996. The case is currently listed as completed case closed as of July 28, 1997. Based on the current regulatory status and its downgradient location, this facility is not expected to have had an impact on the project site.
 - Texaco Service Station is listed twice in the EDR report.

4.1.14 State and Tribal Registered Storage Tanks

The State Water Resources Control Board's Hazardous Substance Storage Container Database maintains a list of USTs regulated by the RCRA.

- The project site is not listed on the registered storage tanks database.
- The database identified two registered storage tanks facilities within a quarter mile radius of the project site.
 - Riverside City Radio Repeat at Box Springs Mountain Road, approximately 0.136-miles southwest of the project site, is listed as having a permit with Riverside County. The Facility ID is listed as 639.
 - Quixtop JR Market at 783 W Blaine Street, approximately 0.154-miles east of the project site, is listed as having a permit with Riverside County. The Facility ID is listed as 613.

4.1.15 State and Tribal Voluntary Cleanup Site

The DTSC maintains a list of low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

- The project site is not listed on the state and tribal voluntary cleanup program.

4. Regulatory Status

- The database search did not identify any state and tribal voluntary cleanup program sites within a half mile radius of the project site.

4.1.16 State and Tribal Brownfield Sites

A listing of sites the State Water Resource Control Board considers to be Brownfields since these are sites have come to them through the Memorandum of Agreement (MOA) Process.

- The project site is not listed on the state and tribal brownfield database.
- The database search did not identify any state and tribal brownfield sites within a half mile radius of the project site.

4.1.17 HAZNET

HAZNET contains the data obtained from hazardous waste manifests received by the DTSC for lawful disposal of hazardous materials. A listing on the HAZNET database does not indicate that an environmental concern exists, only that a lawful disposal of materials has occurred.

- The project site is not listed on the HAZNET database.
- The database search did identify one property on the HAZNET database within a quarter mile radius of the project site.
 - The University of California, Riverside at 900 University Avenue, approximately 0.365-miles south southeast of the project site, is identified on the HAZNET database.

4.1.18 Orphan Sites

The EDR database identified two sites that is indicated as being potentially in the area and was not mapped due to incomplete address information.

- UCR Parking Lot 6 is listed as a LUST case that is closed and is over a mile from the project site.
- UCR Pesticide Pit is a facility that is considered closed and undergoing long term monitoring.

Based on a review of the orphan site locations, the project site is not expected to have been impacted.

4.2 ADDITIONAL ENVIRONMENTAL RECORDS REVIEW

In conformance with ASTM inquiry was made with the additional agencies described below.

4. Regulatory Status

4.2.1 Local Brownfield Lists

The DTSC's Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. There were no brownfield sites identified on the EnviroStor database in the radius searched for the site.

4.2.2 Local Lists of Landfill / Solid Waste Disposal Sites

A record search was done of the local lists of landfill / solid waste disposal sites. No facilities were identified within 0.50 miles of the project site.

- The project site was not identified as a landfill or solid waste disposal site.
- The database did not identify any landfill or solid waste disposal facilities within a half-mile radius of the project site.

4.2.3 Local Lists of Hazardous Waste Contaminated Sites

A record search was done on the following databases: Clandestine Drug Labs, HIST Cal-Sites Historical CalSites Database, Toxic Pits Cleanup Act Sites, School Property Evaluation Program records, US Historical Clandestine Laboratory Register, and CERS HAZ Waste records were searched.

- The project site was not identified on the above databases.
- The database identified one CERS HAZ Waste facility within a half-mile radius of the project site.
 - UCR at 3401 Watkins Drive, approximately 0.46-miles southeast of the project site, is listed as a hazardous waste generator. The site ID is listed as 174264 and the CERS ID is 10525672.

4.2.4 Local Lists of Registered Storage Tanks

A record search was done of the local lists of registered storage tanks. Two registered UST facilities were identified within 0.25 miles of the project site.

- UCR at 3401 Watkins Drive is listed as having permits for aboveground petroleum storage tanks with the site ID listed as 1744264 and CERS ID listed as 10525672. The facility also has permits for underground storage tanks with the facility ID 33006882.
- Alta-Dena Drive-In #571 at 811 W Blaine Street is listed as a historical UST facility with the facility ID listed as 00000011198.
 - This facility is listed twice in the EDR

4. Regulatory Status

- Quixtop JR Market at 783 Blaine Street is listed as having a permit for a UST with Riverside County. The facility ID is listed as 613.
 - This facility is listed twice in the EDR

4.2.5 High Risk Historical Records

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, and dry cleaners. There were no historical facilities identified within a quarter mile of the project site.

4.2.6 Vapor Migration

The ASTM 1527-21 standard states that "for the purposes of this practice, "migrate" and "migration" refers to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface". Thus, this section specifies whether or not we perceive a risk of vapor migration to the project site.

To assess vapor migration risk, a review and analysis of the site-specific environmental database report and other reasonably ascertainable records was implemented to assess whether:

1. Off-site properties have documented chlorinated volatile organic compound (VOC) contamination located within 100 feet of the project property, or
2. Off-site properties have documented volatile petroleum hydrocarbon contamination within 30 feet of the project property.

Based on the records review, it is unlikely that a potential source of vapor migration currently exists beneath the site from off-site properties. No chlorinated VOC contamination was identified within 100 feet of the project site, and no underground storage tanks or petroleum hydrocarbon contamination were identified adjacent or within 30 feet of the project site.

5. Apparent Problem

There is no physical or historic evidence of any site activity that might have caused any environmental impact to the site. However, there are potential environmental issues evaluated in this PEA. The PEA identified the following potential issues at the site:

- The possibility of residual pesticides present in the soil due to historical agricultural use of the site from approximately 1931 to around 1953.
- The possibility of residual lead from lead-based paint and termiticide usage on the project site due to the two historic structures that were identified on the project site from at least 1931 until about 1985.
- Evaluate if fill material identified on the site is clean.

Because the site is for a proposed school, there is a potential for children who will attend the school and adult employees of the school to be exposed to chemicals that may be present in soil. Potential exposure may occur from soil ingestion, dermal exposure to soil, and inhalation of particles. The sampling that was conducted as part of this PEA was directed at addressing these potential chemicals of concern and these potential exposure pathways.

Because of the presence of the above-mentioned concerns, a PEA was initiated for the site.

5. Apparent Problem

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6. Environmental Setting

This section describes potential exposure pathways and the site geology and hydrogeology.

6.1 FACTORS RELATED TO SOIL EXPOSURE PATHWAYS

6.1.1 Site Topography

The topographic gradient of the project site is to the southwest. Based on a review of the United States Geological Survey (USGS) 7.5-minute Topographic Series, Riverside East, California Quadrangle Map (USGS 2015), surface elevation of the site is approximately 1,030 feet above mean sea level (msl) with a slight slope to the west. Topographic maps are included in Appendix B.

6.1.2 Site Geology and Soil Types

Based on a review of the United States Geological Survey (USGS) 7.5-minute Topographic Series, Riverside East, California Quadrangle Map (USGS 2015), the property is located in the northern part of the Peninsular Ranges Geomorphic Province. The Peninsular Ranges Geomorphic Province extends approximately 900 miles southward from the Los Angeles Basin to Baja California, Mexico and is characterized by elongated northwest-trending mountain ranges separated by sediment-floored valleys (Yerkes et al. 1965). The most dominant structural features of the province are the northwest-trending fault zones, most of which die out, merge with, or are terminated by the steep reverse faults at the southern margin of the San Gabriel Mountains within the Transverse Ranges Geomorphic Province. The site itself sits atop early Pleistocene alluvial fan deposits (Morton and Cox 2001). Topographically, the site gently slopes to the west. Based on a review of the USGS 7.5-minute Topographic Series, Riverside East, California Quadrangle Map (USGS 2015), surface elevation of the site is approximately 1,030 feet above mean sea level (msl).

The site is not within or immediately adjacent (i.e., within a few hundred feet) to an Alquist-Priolo Earthquake Fault Zone (California Geological Survey [CGS] 2019). The nearest Alquist-Priolo Earthquake Fault Zone is located approximately 5.2 miles northeast of the site for the San Jacinto Fault. Based on a review of readily available geologic literature (Morton and Cox 2001; CGS 2000a; CGS 2019; Jennings and Bryant 2010) and the Riverside General Plan (2007), there are no known active faults or geologically hazardous areas on or immediately adjacent to the site.

The United States Department of Agriculture Natural Resources Conservation Services maps the soil beneath the site as Buren fine sandy loam (USDA, 2019). Buren fine sandy loam is classified as soil that has a slow infiltration rate with moderately fine to fine textures. The soil is also classified as moderately well drained.

6. Environmental Setting

6.1.3 Naturally Occurring Asbestos and Radon

Naturally occurring serpentine rock or rock formations—which may contain significant quantities of asbestos—are not located within 10 miles of the project site (Van Gosen and Clinkenbeard 2011). Additionally, based on a review of *A General Location Guide for Ultramafic Rocks in California: Areas More Likely to Contain Naturally Occurring Asbestos* (Department of Conservation, Division of Mines and Geology 2000) and Van Gosen and Clinkenbeard (2011), the site is not located within a 10-mile radius of an area thought to contain naturally occurring asbestos. Therefore, project implementation would not result in the exposure of hazardous materials or naturally occurring hazardous materials on the school site.

The EPA Radon Zone for Riverside County is Zone 2 with indoor average levels greater than 2 pCi/L and less than 4 pCi/L. The U.S. EPA has established their action level for radon at 4.0 pCi/L. The federal radon information for zip code 92507 indicates that 100% of the site tested are less than 4 pCi/L and the state database indicates that maximum result was found to be 1.8 pCi/L. Based on the sites being below 4pCi/L in the area, radon is not considered an issue for the project site.

6.1.4 Site Accessibility

The project site is accessible off of Rustin Avenue to the west, Blaine Street to the north, and Canyon Crest Drive to the east.

6.1.5 Proximity to Nearby Receptors

6.2 FACTORS RELATED TO WATER PATHWAYS

Existing surrounding uses to the project site include residential, institutional, and commercial uses: the Stonehaven Apartments for student housing to the north; apartments to the northwest; and a mix of church, apartments, and commercial uses to the northeast. Existing uses on Canyon Crest Drive include the mostly undeveloped North District Development area located to the east⁵; Falkirk Apartments for student housing and a portion of the Gage Canal to the south; REACH Leadership STEAM Academy, a church, a portion of the Gage Canal to the southwest; and the UCR Baseball Complex and Gage Canal to the west. The following sections describe factors related to potential water pathways.

6.2.1 Groundwater Pathway and Surface Water Information

The site is located in the Riverside-Arlington Subbasin of the Upper Santa Ana Valley Groundwater Basin. Surface water is expected to follow the direction of the ground slope toward the closest open body of water or intermittent stream, in this case, University Wash located about 0.3 mile south of the site. According to the Western-San Bernardino Watermaster Cooperative Well Measuring Program, Spring 2008, the closest well is located about 0.36 mile south-southwest of the site. The well, identified as MW-2, was last measured on May

⁵ The UCR North District Development (NDD) Phase I located at the southeastern portion of the NDD area, which includes approximately 1,500 student beds, was completed Summer 2021. Construction of the future phases of the North District area (e.g., residence hall beds, apartment beds, dining facilities, recreation) will be determined at a later date pending demand and funding.

6. Environmental Setting

22, 2007 with a depth to water of 183 feet below ground surface. Based on the EDR GeoCheck addendum included in Appendix C, groundwater flow in the site vicinity is toward the west. Hydrogeologic investigations were not performed on the site for this investigation; therefore, it is unknown to what extent localized variations in groundwater presence and flow occur on the site.

The City of Riverside provides water services (both potable and recycled water) to the project site and surrounding area, which is supplied from groundwater resources in the San Bernardino, Bunker Hill, and Riverside Basins (Riverside, 2019). Based on an analysis of the topography in the site vicinity, sheet flow runoff from the site during periods of intense or prolonged precipitation would be expected to flow to the south. According to FEMA, the closest 100-year flood plain is located about 0.3 mile south of the site.

6.2.2 Impacted Aquifers from Site Releases

There are no known site releases.

6.3 FACTORS RELATED TO AIR PATHWAYS

The site is classified as being in climate zone 10 by the California Energy Commission. It is an area that is semi-arid with hot, dry summers and mild winters. The Western Regional Climate Center collected data from Riverside from 1893 to 2016. The mean temperature in the area ranges from a low of 48.6° Fahrenheit (°F) in the winter to a high of 79.5°F in the summer. The average annual precipitation is 10.21 inches per year (Western Regional Climate Center 2019).

6. Environmental Setting

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7. Sampling Activities and Results

This section describes methods and results of the soil sampling activities conducted at the site on October 22, 2019 and May 1, 2020. The second round of sampling was due to a change in site boundary. Figure 4 shows the sampling locations for the project survey area. Table 1 provides a summary of the sampling and analysis program for the PEA. The Health and Safety Plan used for the site is included in Appendix D.

- Soil sampling activities were conducted at the site on October 22, 2019 for the PEA. After sampling was implemented in 2019, the project site boundaries changed to include a portion of the southern parking lot increasing the project to approximately 6 acres plus an additional 0.77 acres of the Gage Canal. Additional soil samples were collected on May 1, 2020 in the parking lot area.
- Soil samples were collected from 25 locations from one to three depths for a total of 65 soil samples collected plus 6 duplicates. For the parking lot area, 11 additional soil samples were collected from 5 locations for a total of 76 soil samples. Samples were labeled with a ‘S’ if they were collected near two former structures, ‘F’ if fill only and ‘B’ for agricultural location. The current site boundaries are approximately 6 acres, and only the six “F” locations are located outside the current site boundaries.
- Sixteen composite soil samples plus two duplicate samples were analyzed for organochlorine pesticides (OCPs) by EPA Method 8081A to assess for potential residual OCPs from historic agricultural operations, imported fill and possible termiticides used on the structures.
- Ten discrete soil samples plus two duplicates were analyzed for CAM-17 metals by EPA Method 6010B/7471A from the fill material. Twelve soil samples plus one duplicate were collected and analyzed for lead and arsenic by EPA 6010B to assess for arsenic from pesticides and lead in soil associated with the former structures.
- Ten discrete soil samples plus two duplicates were collected and analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015B from the fill material.
- Seven soil samples plus two duplicates were collected and analyzed for PCBs by EPA Method 8082.
- Five discrete soil samples plus two duplicates were collected from the fill material and analyzed for semi volatile organics (SVOCs) by EPA Method 8270SIM.
- Six soil samples plus two duplicates were collected from the fill material and analyzed for asbestos by Polarized Light Microscopy (PLM).

7. Sampling Activities and Results

7.1 UTILITY CLEARANCE

Prior to commencement of field activities, Underground Service Alert (USA) was notified of our intent to conduct subsurface investigations at least 48 hours prior to initiation of intrusive field tasks. USA contacted all utility owners of record within the site vicinity and notified them of our intention to conduct subsurface investigations in proximity to buried utilities. All utility owners of record, or their designated agents, were expected to clearly mark the position of their utilities on the ground surface throughout the area designated for investigation. Subsurface utility maps were also reviewed for site that were provided by UCR.

7.2 SAMPLING PROCEDURES

Soil samples were collected following protocols described in DTSC's PEA Guidance Manual (DTSC 2015), DTSC's Interim Guidance for Sampling Agricultural Properties (Third Revision) (DTSC 2008), and DTSC's Guidance for Evaluating School Sites with Potential Soil Contamination as a result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers (DTSC 2006). The sampling program that was implemented is included in Table 1 and all sampling locations are shown on Figure 4, *Sampling Locations*. A Professional Geologist was on-site to direct and observe all field activities.

7.2.1 Soil Sampling Methods and Procedures

Soil sampling was conducted using a truck-mounted direct push drill rig (Geoprobe™) during the October 22, 2019 sampling event. The Geoprobe™ rig advanced acetate lined sample core barrels sleeves to desired depths using a hydraulic ram or pneumatic hammer system. The inside diameter of the core barrel was 1.5 to 2.0 inches. The sample barrel was retrieved, and the sample interval was observed, logged and preserved. Soil samples were preserved by placing Teflon™ sheeting and polyethylene caps leaving no headspace and placing them in sealable plastic bags. Samples that were collected in the vicinity of the Gage Canal were hand augered and did not extend beyond 0.5 feet bgs. Soil samples that were collected on May 1, 2020 were all collected with a hand auger.

Observations pertaining to the soil type were described by the field geologist. Each soil sample was labeled with the sample number, sample depth, and the date and time the sample was collected. Samples were immediately placed in an ice-filled cooler and listed on a chain-of-custody form. Any observation pertaining to potential soil contamination or soil source was recorded. The chain-of-custody forms are included in Appendix E.

7.3 QUALITY CONTROL SAMPLING PROCEDURES

Field quality control samples associated with the sampling program included duplicate soil samples, equipment blanks, and soil matrix spike/matrix spike duplicate (MS/MSD) samples, in accordance with the DTSC PEA Guidance Manual (DTSC 2015). Duplicate soil samples were collected and analyzed and are listed on Table 1 for soil samples.

7. Sampling Activities and Results

Field duplicate samples were collected and analyzed to evaluate sampling and analytical precision. Field duplicates for soil samples were collected at a rate of approximately 10% of the samples collected. The duplicate samples were analyzed for all laboratory analyses requested for the primary samples collected. In addition, equipment blanks were collected using distilled water passed through sampling equipment following each sampling event. The Quality Assurance Project Plan (QAPP) is included in Appendix F.

7.4 DECONTAMINATION PROCEDURES

All equipment that came into contact with the soil was decontaminated consistently to assure the quality of samples collected. Decontamination was conducted prior to and after each use of a piece of equipment. All sampling devices used were decontaminated using the following procedures:

- Non-phosphate detergent and distilled water wash, using a brush; and
- A double deionized/distilled water rinse.

7.5 INVESTIGATIVE-DERIVED WASTE MANAGEMENT

In the process of collecting environmental samples during the field-sampling program, different types of potentially contaminated investigation-derived wastes (IDW) were generated that include the following:

- Used personal protective equipment (PPE);
- Disposable sampling equipment;
- Soil cuttings; and
- Decontamination fluids.

The EPA's National Contingency Plan requires that management of IDW comply with all applicable or relevant and appropriate requirements to the extent practicable. The sampling plan followed the Office of Emergency and Remedial Response Directive 9345.3-02 dated May 1991, which provides the guidance for the management of IDW. In addition, other legal and practical considerations that may affect the handling of IDW will be considered.

Listed below are the procedures that were followed for handling the IDW:

- Used PPE and disposable equipment were double bagged and placed in a municipal refuse dumpster. These wastes are not considered hazardous and can be sent to a municipal landfill.
- Soil cuttings were returned to their original borehole.

7. Sampling Activities and Results

7.6 ANALYTICAL RESULTS

Organochlorine pesticide results in soil are summarized in Table 2. Table 3 is a summary of CAM-17 metal results. Table 4 is a summary of TPH, Table 5 is a summary of SVOCs, Table 6 is a summary of PCBs and asbestos results are summarized on Table 7 Laboratory summary reports for all analytes are included in Appendix E.

7.7 DISCUSSION OF RESULTS

7.7.1 Soil Description

Descriptions of the soils encountered and collected during the investigation were recorded by a field geologist. Fill soils were described as massive loose to medium dense dark brown to brown silt with medium to fine sand with occasional gravel, which is composed of concrete and/or asphalt fragments (in the instances of S-7 and S-8). Fill thickness ranged from 0.5 feet to 4 feet thick across the site. The thickness of fill encountered is listed on Table 1.

Native soils were described as laminated medium dense strong brown to reddish yellow silty medium sand. No staining, unusual odors, or visual signs of contamination were observed by the field geologist.

7.7.2 Soil Results

7.7.2.1 ORGANOCHLORINE PESTICIDES

Sixteen composite soil samples plus two duplicate samples were analyzed OCPs by EPA Method 8081A to assess for potential residual OCPs from historic agricultural operations, imported fill and possible termiticides used on the structures. Three OCPs were detected in the composite soil samples (4,4'-DDE, 4,4'-DDT, and dieldrin) collected and analyzed.

- 4,4'-DDE was detected in nine out of the 18 composite samples analyzed in concentrations ranging from a minimum of 0.002 mg/kg in the 2:1 composite sample F4, F5 @ 0.5' bgs, collected in the fill, to a maximum concentration of 0.027 mg/kg in the 4:1 composite sample S1, S2, S3, S4 @ 4.5' bgs, which was collected in the native soil. EPA Region 9 Regional Screening Levels (RSLs) for 4,4'-DDE adjusted for 2:1 composite sample is 1 mg/kg and for a 4:1 composite sample is 0.50 mg/kg. The levels of 4,4'-DDE detected are below the adjusted RSLs. 4,4'-DDE was detected in the fill material and native soil at similar concentrations.
- 4,4'-DDT was detected in one 4:1 composite sample S1, S2, S3, S4 @ 4.5' bgs at a concentration of 0.0024 mg/kg. The sample was collected from native soil near the former structure. The RSL for 4,4'-DDT adjusted for a 4:1 composite sample is 0.48 mg/kg. The concentration of 4,4'-DDT detected is below the RSL.

7. Sampling Activities and Results

- Dieldrin was detected in the 4:1 composite sample S1, S2, S3, S4 @ 4.5' bgs at a concentration of 0.0057 mg/kg. The sample was collected from native soil near the former structure. The RSL for dieldrin adjusted for a 4:1 composite sample is 0.0085 mg/kg. The concentration of dieldrin detected is below the RSL.

Table 2 is a summary of the organochlorine pesticides detected at the site and their EPA Region 9 RSLs. Appendix E contains the laboratory reports.

7.7.2.2 CAM-17 METALS

Ten soil samples plus two duplicate samples were collected from the fill material and analyzed for CAM-17 metals by EPA Method 6010B/7471A. An additional twelve soil samples plus a duplicate sample were collected and analyzed for lead and arsenic from the native soil to evaluate if there were residual concentrations of potential arsenate pesticides that may have been used at the site prior to the construction of the baseball field and if the former structures may have used lead-based paint that impacted the site.

Arsenic was detected in two out of 22 soil samples plus four duplicates analyzed with the highest concentration of arsenic detected at 1.94 mg/kg found in soil sample B8 @ 0.5', collected from fill. The Department of Toxic Substance Control (DTSC) Screening Level (SL) for arsenic is 12 mg/kg. The levels of arsenic detected are below the DTSC SL for residential exposure⁶. Table 3 summarizes CAM-17 metal results. Laboratory reports for arsenic analysis are included in Appendix E.

Lead was detected in all 22 soil samples and three duplicate soil samples analyzed for lead. Lead concentrations ranged from a minimum of 1.76 mg/kg to a maximum concentration of 58.1 mg/kg. All lead concentrations are below the DTSC screening level of 80 mg/kg for residential exposure.

Maximum concentrations for the remaining CAM-17 metals were within typical background levels for the area and are below residential screening levels. The background data set for metals used was from another Riverside Unified School District PEA (PlaceWorks 2019). The background data set was collected from a similar alluvial fan on the north side of the Box Springs Mountains. The Buren fine sandy loam of the project site is similar in texture to the Greenfield sandy loam of the background data set, and both sites have had historical agriculture (USDA 2018; PlaceWorks 2019). Antimony, beryllium, cadmium, mercury, molybdenum, selenium, silver and thallium were not detected in any of the samples analyzed. CAM-17 metal results and screening levels are summarized on Table 3 and laboratory reports for metal analysis are included in Appendix E.

7.7.2.3 TOTAL PETROLEUM HYDROCARBONS

Ten soil samples plus two duplicate soil samples collected from the fill material were analyzed for TPH by EPA Method 8015B. TPH was not detected in the C4-C12 (gasoline) fraction, in the C13-C22 (diesel) fraction, or in the C23-C44 (motor oil) fraction. TPH results and screening levels are summarized on Table 4 and laboratory reports for TPH analysis are included in Appendix E.

⁶ Department of Toxic Substance Control (DTSC) requires the residential land use scenario be used to evaluate school sites as it is the most conservative assessment.

7. Sampling Activities and Results

7.7.2.4 SEMIVOLATILE ORGANIC COMPOUNDS

Five soil samples plus two duplicate soil samples collected from the fill material were analyzed for SVOCs by EPA Method 8270SIM. SVOCs were not detected in any of the soil samples analyzed. SVOC results showing laboratory reporting levels and screening levels are summarized on Table 5 and laboratory reports for SVOC analysis are included in Appendix E.

7.7.2.5 POLYCHLORINATED BIPHENYLS (PCBS)

Seven soil samples plus two duplicate soil samples collected from the fill material were analyzed for PCBs by EPA Method 8082. PCBs were not detected in the soil samples analyzed. PCB results showing laboratory reporting levels are summarized on Table 6 and laboratory reports for PCB analysis are included in Appendix E.

7.7.2.6 ASBESTOS

Six soil samples plus two duplicate soil samples collected from the fill material were analyzed for asbestos by Polarized Light Microscopy (PLM), EPA Method 600/R-93/116. Asbestos was not visible in the soil samples analyzed. Asbestos results are summarized on Table 7 and laboratory reports for asbestos analysis are included in Appendix E.

8. Human Health Screening Evaluation

A human health screening assessment was conducted to evaluate the potential threat to human health at the project site. The established PEA screening process was used to determine if there are levels of contamination at the site that may cause a concern about effects on human health. This evaluation uses the conservative risk assessment screening method presented in the PEA Guidance Manual and in DTSC's Human Health Risk Assessment (HHRA) Notes 3 and 4 (DTSC 2022a and 2022b). The purpose of the human health risk screening evaluation was to assess whether levels of contaminants in soil at the site could pose a threat to human health under conservative (health-protective) exposure assumptions. The PEA requires a residential land use scenario regardless of current use and zoning.

A screening level human health risk assessment provides a general indication of whether there is potential risk to human health and helps identify areas of concern at a site where a release of hazardous chemicals has occurred. It normally uses established risk-based screening levels such as U.S. EPA RSLs and DTSC-SLs to estimate the cancer risks and noncancer hazards and is intended to be a health-protective preliminary evaluation of potential risk and hazard (DTSC 2015). If a site fails the screening level risk assessment, e.g., cancer risks are greater than 1×10^{-6} and/or noncancer hazards are greater than 1, then further investigation and/or a more site-specific baseline risk assessment may be necessary to evaluate the potential risk to all receptors.

DTSC has developed modified screening levels (SLs) based on EPA Regional Screening Levels (RSLs) for use in the human health risk assessment process. In this screening level human health risk assessment, the hierarchy recommended by the DTSC was used. DTSC-SLs provided in Note 3 were used in preference to RSLs. RSLs were used for potential Chemicals of Concern (COCs) for which a DTSC-SL value in Note 3 were not available.

8.1 CONCEPTUAL SITE MODEL

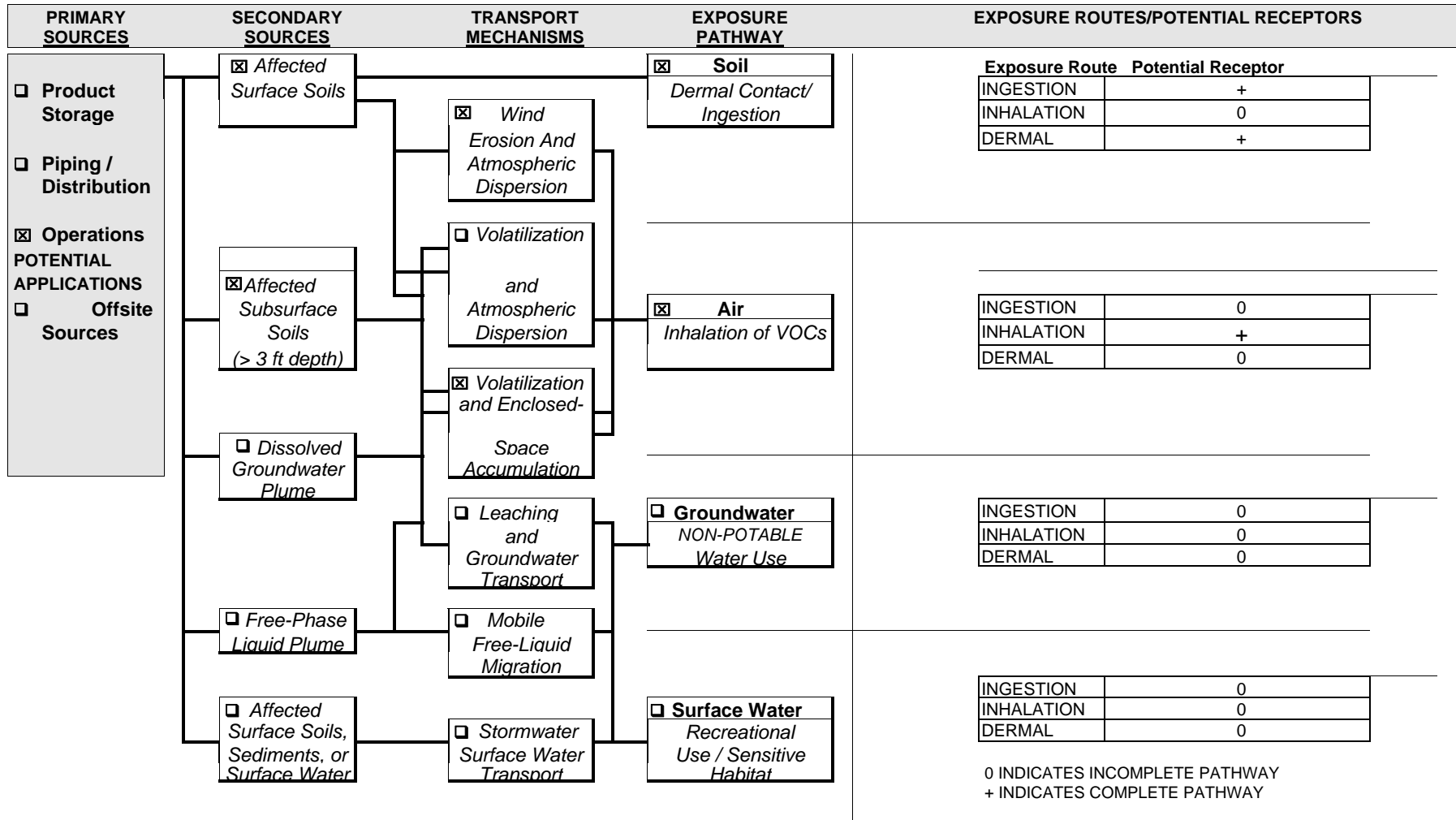
The potentially complete soil exposure pathways include soil ingestion, dermal exposure to soil, and inhalation of particulates and volatile organics. Potentially exposed populations for the site include on-site school age children and employees based on future land use plans. In addition, consistent with DTSC guidance, future unrestricted/residential land use was considered as the most health-protective and conservative land use for the assessment and hypothetical future onsite residents were also evaluated. In order to estimate what the potential exposures may be under current and future land use plans; risk calculations were conducted using the data that were collected for this investigation.

Figure 5 is the conceptual site model for the site. The primary sources of chemicals of concern for the site are from the historic land uses discussed in Section 3. The exposure assumptions for the residential land use exposure scenario assumes that exposure will occur 24 hours per day for seven days a week for 350 days per year for 26 years. This exposure scenario is very health protective for a school site where teachers, students and staff may occupy the site for a maximum of 250 days per year for eight to nine hours per day.

8. Human Health Screening Evaluation

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Riverside, California**



8. Human Health Screening Evaluation

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8. Human Health Screening Evaluation

8.2 CHEMICALS OF CONCERN SELECTION

The chemicals of concern (COCs) for the site that were evaluated in the PEA screening risk assessment have been identified based on-site history, sampling results, DTSC guidance and protocol. Three OCPs were detected in the composite soil samples (Table 2). Because multiple OCPs were detected in the soil at the site, a screening level risk analysis was implemented following Human Health Risk Assessment (HHRA) Note 3 (DTSC 2022a).

Metals were not included as COCs because all detected concentrations were not detected above background concentrations, above RSLs or were below DTSC's risk management levels for schools (Table 3). TPH, SVOCs, and PCBs were not detected in any of the soil samples analyzed from the site and were not included in the human health risk assessment.

8.3 SOIL EVALUATION FOR ORGANOCHLORINE PESTICIDES

The concentrations of the three pesticides detected in the soil samples do not exceed the EPA Region 9 RSLs or DTSC SLs. A summary table is provided below showing the highest reported pesticide concentration at the site and the corresponding cancer endpoint EPA Region 9 RSL or DTSC SL. The cancer risk was calculated by determining the quotients of the maximum concentration of each pesticide by their corresponding RSL and then multiplying the sum total of the quotients by 1 E-06.

Carcinogenic Risk Residential Exposure Using Maximum Concentrations in Soil

Chemical	Maximum Concentration mg/kg	Number of Samples in Composite	RSL mg/kg	RSL adjusted for number of samples in composite	Conc./RSL
Dieldrin	0.0057	4	0.034	0.0085	0.67
4,4'-DDE	0.027	4	2	0.5	0.054
4,4'-DDT	0.0024	4	1.9	0.475	0.005
Total Risk					7.3E-07

The estimated cancer risk for the site using the maximum detected concentrations of the OCPs screened using adjusted RSLs based on the number of samples that comprised the composite and assuming a residential land use exposure scenario is 7.3E-07, below the level of concern of 1.0E-06.

Hazard Index Residential Exposure Using Maximum Concentrations in Soil

Chemical	Maximum Concentration mg/kg	Number of Samples in Composite	RSL for Noncancer Risk mg/kg	RSL adjusted for composite	Conc./RSL
Dieldrin	0.0057	4	3.2	0.8	0.0071
4,4'-DDE	0.027	4	23	5.75	0.0047
4,4'-DDT	0.0024	4	37	9.25	0.00026
Total Hazard					0.012

8. Human Health Screening Evaluation

The cumulative hazard index (HI) for noncarcinogenic risk for exposure to organochlorine pesticides in soil was significantly less than 1 using the maximum concentration for a residential exposure scenario. A total HI of 1 or less indicates that there is no cause of concern for adverse noncarcinogenic health effects.

The concentrations of the pesticides at the site do not pose a significant health risk to future users of the site under the most conservative assumptions using a residential land use exposure scenario and maximum reported concentrations reported. The pesticides were reported infrequently, and the risk analysis conservatively assumes that the highest reported concentrations are located throughout the site.

8.4 UNCERTAINTY ANALYSIS

The data collected are subject to uncertainty associated with sampling and analysis. These data are presented in other parts of the PEA. In the analysis it was assumed that samples collected were representative of conditions to which various populations may be exposed. However, the collected samples may not be completely representative due to biases in sampling and to random variability of samples. In general, sampling was biased toward areas of known and suspected elevated chemical concentrations, which will lead to an overestimation of risk when these results are assumed to represent a larger area. The placement of soil borings was in part, purposely biased to detect and characterize potential hot spots of soil based on historical site use. This type of sampling approach is likely to overestimate the chemical concentrations to which a receptor would be exposed and the potential health impact to the receptors evaluated.

Samples were analyzed using California State Certified Laboratory procedures and were subjected to limited review, to obtain data suitable for decision-making. However, it should be understood that sample analysis is subject to uncertainties associated with precision, accuracy and detection of chemicals at low concentrations.

9. Ecological Screening Evaluation

9.1 SITE CHARACTERIZATION

Based on visual observations during the site visit and information provided by the District, the site is currently used as an open recreational field with two baseball diamonds, surface parking, and contains the Sprint Cell Tower and T-Mobile Cell Tower and had been used for agricultural purposes from at least 1931 to around 1953. From 1931 to 1985 a residential dwelling and associated structures occupied a portion of the northern area of the project site. The area is disturbed and does not support wildlife habitats.

9.2 BIOLOGICAL CHARACTERIZATION

The site is a disturbed area that has been developed and does not support wildlife habitats.

9.3 ECOLOGICAL PATHWAY ASSESSMENT

No assessment of potential exposures to sensitive ecological receptors is necessary based on the low concentrations of pesticides detected and the lack of other COCs on the site.

9.4 ECOLOGICAL SCREENING EVALUATION SUMMARY

An ecological screening evaluation was not conducted for the site because of the lack of wildlife habitats and because of the low concentrations of pesticides and other chemicals of concern were not reported for the site.

9. Ecological Screening Evaluation

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10. Quality Assurance/Quality Control (QA/QC) Implementation

The QA/QC Program was implemented in accordance with the DTSC PEA Guidance Manual (DTSC 2015). The primary quality control features of the QA/QC program include the collection and analysis of field quality control samples and the data validation. The Quality Assurance Project Plan is included as Appendix F.

Quality control samples collected in the field included duplicate samples and equipment rinseate blanks as described in Section 7. The data for these quality control samples were reviewed as part of the data validation process, along with results from laboratory quality control analyses. Data validation was performed in compliance with DTSC's PEA Guidance Manual, using protocols consistent with the USEPA National Functional Guidelines (DTSC 2015). Each sample was analyzed for the specified suite of analyses presented in Section 7. Data from each of the analyses were evaluated with respect to the quality control criteria listed below. Data for the project as a whole were evaluated in terms of completeness.

- Holding times;
- Field blanks;
- Laboratory method and calibration blanks;
- Initial and continuing calibrations;
- System monitoring compounds (surrogates - organic analyses only);
- Laboratory control samples (LCS) and LCS duplicate samples (LCSD) - as applicable;
- Matrix spikes (MS)/Matrix spike duplicates (MSD);
- Field replicates/confirmatory samples; and
- Compound identification and quantitation.

Data quality for the project is very good, and the data collected are of acceptable quality for use in the screening evaluation.

Results from the field duplicate samples indicate appropriate sample collection and handling procedures were implemented, and that laboratory analytical precision was also acceptable.

10. Quality Assurance/Quality Control (QA/QC) Implementation

Data validation qualifier flags have been added to those data that did not meet acceptance criteria as defined in School Quality Assurance Project Plans. Results of the validation indicate that all samples collected and analyzed are useful in characterizing the site and assessing the human health and ecological risks for the site. No detectable concentrations were qualified as rejected (R) or were considered to be unusable based on the validation evaluation. Data qualified as estimated (J/UJ) exhibited some bias during analysis and should be considered as an approximate measure of the respective analyte concentration. Qualified data are presented along with the data results in the analytical summary tables provided in this report.

Field activities were observed to be conducted in a manner consistent with the QA/QC procedures presented in the DTSC PEA Guidance Manual (DTSC 2015). No findings were identified that significantly affect the quality of the samples collected or the resulting data evaluation.

10.1 DATA VALIDATION

Data validation was performed for all samples submitted as part of PlaceWorks' evaluation of soil. A&R Laboratories, Inc. was the lead laboratory for the PEA and performed the required soil analyses.

Validation was performed in accordance with the general guidance provided in the USEPA Functional Guidelines for Evaluating Inorganic Analyses (USEPA 1994) and in accordance with the professional judgment of the validation team. Validation was performed to assess analytical performance in terms of the DQOs accuracy, precision, sensitivity, and completeness. Comparability and representativeness DQOs for the samples collected are addressed by the correct implementation of the procedures defined in the sampling and analysis plan.

A summary of the validation program, in terms of the DQOs listed above, is provided in the following sections. Data qualifiers assigned to results, if required, were as follows:

- A. Result is estimated due to failure to meet one of the DQO criteria associated with the sample result or associated sample batch. Results reported at concentrations below standard laboratory reporting limits, but above method detection limits, were flagged "J" by the laboratory, or "B" in the case of metals. These data are validated as J/estimated because they are below the reliable quantitation limits determined by the laboratory.
- U. Result is qualified as not detected at the reported value. This qualifier is used when results from blank analyses indicate that detections in associated samples may be biased high due to potential contaminant conditions in the field or laboratory.
- UJ. Result is qualified as not detected at the reported value, and the value is determined to be estimated. This qualifier commonly results when quality control failures are associated with analytes that are not detected, or when detections are qualified "U" due to blank contamination combined with a "J" qualifier resulting from another QC problem.
- R. Result is rejected due to severe QC failure, or due to multiple lessor QC problems that are determined to be additive.

10. Quality Assurance/Quality Control (QA/QC) Implementation

10.2 ACCURACY

Accuracy was evaluated by assessing the results of holding times, field and laboratory blanks, initial and continuing calibrations, surrogate spike recoveries (organic analyses), LCS recoveries, MS analyses, and interference check samples (metals by inductively coupled plasma).

Frequency and control criteria for initial and continuing calibration verifications were met. The method blank data showed non-detectable levels for all constituents. MS and MSD were performed at the required frequencies. All recoveries were within acceptable limits. LCS analysis was performed at required frequencies and all recoveries were within acceptable limits. Surrogate recoveries for all samples were within acceptable control limits.

10.3 PRECISION

Precision was evaluated by assessing the results between MS and MSD analyses, LCS and LCSD analyses, between laboratory duplicate analyses. The precision DQO was generally satisfied for the samples collected during the project. Precision was evaluated as the relative percent difference (RPD) between control sample results. RPD criteria reported by the laboratory were used to assess precision. RPDs were within the appropriate control limits and precision is considered acceptable.

10.4 SENSITIVITY

Sensitivity was addressed by ensuring that the reporting limits provided by the laboratories met those as requested in the workplans and task orders provided to the laboratory. Data were qualified in cases where results were reported at concentrations below standard laboratory reporting limits, but above the method detection limits that may have been required to meet the sensitivity requirements for the project. Such results were flagged by the laboratory as either J or B qualified data. These data retain a J/estimated qualifier due to potential decreased reliability at low concentration levels.

10.5 COMPLETENESS

Completeness is an evaluation of the overall sampling program with respect to data generated that is usable versus data that may have been rejected. No data was rejected during the data validation process for this project. The completeness objectives (minimum 90 percent) for this project are therefore considered to be satisfied for all analyses.

10.6 DATA VALIDATION CHART

The following table is a summary of pertinent quality indicators that were verified during the data validation process.

10. Quality Assurance/Quality Control (QA/QC) Implementation

ACCEPTABILITY		
QUALITY INDICATOR	SOIL	SOIL
	EPA Method 6010	EPA Method 8081A
	Target Analyte: Arsenic	Target Analyte: 4,4'-DDT
Completeness of Laboratory Reports (e.g., laboratory, client, and sample identifications; ELAP certification number, project name, sample matrix, sample collection, preservation, preparation, extraction, analysis dates; analytical methods; analytes; reporting units and limits; dilution factors; report page numbering system; designated title and signatures)	Y See discussion above	Y See discussion above
Reporting Limit (RL)	Y 1 mg/kg for ARL	Y 0.0020 mg/kg for ARL
Chain of Custody	Y	Y
Sample Containers and Conditions	Y	Y
Holding Time (<28 days)	Y	Y
Sample Preservation	Y	Y
Equipment Rinsate Blanks	Y	Y
Field Duplicates	Y	Y
Field QC Samples – Others	NA	NA
Surrogate Recoveries	NA	NA
Method Blanks	Y	Y
LCS % Recovery	Y	Y
MS/MSD % Recovery	See discussion above	See discussion above
MS/MSD % RPD	See discussion above	See discussion above
Laboratory Duplicates	See discussion above	See discussion above
Laboratory QC Samples – Others	NA	NA
Compound Identification	Y	Y
Compound Quantitation	Y	Y
Dilution Factors	Y	Y
Data Qualifiers	Y	Y
Confirmation of Positive Samples	NA	NA
Observations of Significance	NA	NA
Case Narrative	Y	Y
Instrument Tuning	NA	NA
Initial Calibration	Lab	Lab
Calibration Verification	Lab	Lab
Interference Check Standard	NA	NA
Others	NA	NA

NOTES:

Y = acceptable or in compliance

NA = not applicable

Lab = responsible by the Laboratory

11. HASP Implementation

PlaceWorks prepared a site-specific HASP pursuant to Health and Safety Code 1910.120. The plan addressed the following:

- Identification and description of potentially hazardous substances that may be encountered during field operations;
- PPE and clothing for site activities; and
- Measures that need to be implemented in the event of an emergency.

PlaceWorks field personnel reviewed the HASP prior to commencing fieldwork. Prior to initiation of field activities each day, a site safety briefing was conducted to identify potential physical and chemical hazards and measures to be taken in event of an emergency. All on-site personnel were required to sign the site safety briefing form.

During field activities, all personnel within the exclusion zone wore appropriate level D PPE. A copy of the HASP is contained in Appendix D.

11. HASP Implementation

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12. Field Variances

Soil sampling was conducted on the project survey area in general accordance with the DTSC PEA Guidance Manual (DTSC 2015), and Interim Guidance for Sampling Agricultural Properties (Third Revision) (DTSC 2008). Sampling depths were adjusted based on the amount of fill encountered at each sampling location as shown on Table 1. Sampling depths were adjusted to target the approximate middle of the fill for samples targeting fill material, and depths for native soil were adjusted based on the depth of the fill/native soil horizon.

12. Field Variances

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13. Evaluations of Applicable or Relevant Laws and Regulations Pertaining to School Sites

State of California Department of Education Code Section 17213 and Public Resources Code 21151.8 prohibit the approval of a project involving the purchase of a school site or the construction of a new elementary or secondary school by a school district unless the district first determines whether the site is:

- The site of a current or former hazardous waste disposal site or solid waste disposal site and, if so, whether the wastes have been removed.
- A hazardous substance release site identified by the State Department of Health Services in a current list adopted pursuant to Section 25356 for removal or remedial action pursuant to Chapter 6.8 (commencing with Section 25300) of Division 20 of the Health and Safety Code.
- A site which contains one or more pipelines, situated underground or aboveground, which carries hazardous substance, acutely hazardous materials or hazardous wastes, unless the pipeline is a natural gas line which is used only to supply natural gas to that school or neighborhood.
- In addition, the school district must contact the local air pollution control district to identify any facilities located within ¼-mile of the proposed school site that might reasonably be anticipated to emit hazardous emissions or handle hazardous materials, substances or waste. If any facilities exist within the ¼-mile the district must be able to make a written finding that:
 - a) The health risks from the facilities do not and will not constitute an actual or potential endangerment of public health to persons who attend or are employed at the proposed school; or
 - b) If potential hazards exist and have been identified, corrective measures can be implemented that mitigate air emissions to levels that do not constitute an actual potential endangerment of public health to persons who would attend or be employed at the proposed school.

For this proposed school site, a records search of any hazardous waste/substance storage, treatment, or disposal activities at the site and within a ¼-mile of the site was conducted. No evidence of the site being used as a solid waste or hazardous waste disposal site was found. There were no indications that aboveground or underground pipelines are located on the school site.

13. Evaluations of Applicable or Relevant Laws and Regulations Pertaining to School Sites

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14. Conclusions and Recommendations

After reviewing and analyzing the analytical and human health screening evaluation results of this PEA, PlaceWorks concludes the following with respect to the site:

- Soil sampling activities were conducted at the site on October 22, 2019 for the PEA. After sampling was implemented in 2019, the project site boundaries changed to include a portion of the southern parking lot increasing the project area to approximately 6 acres plus an additional 0.77 acres of the Gage Canal. Additional soil samples were collected on May 1, 2020 in the parking lot area.
- Soil samples were collected from 25 locations from one to three depths for a total of 65 soil samples collected plus 6 duplicates. For the parking lot area, 11 additional soil samples were collected from 5 locations for a total of 76 soil samples. Samples were labeled with a 'S' if they were collected near two former structures, 'F' if fill only, and 'B' for agricultural location. The current site boundaries are approximately 6 acres, and only the six "F" locations are outside the current site boundaries.
- Sixteen composite soil samples plus two duplicate samples were analyzed for organochlorine pesticides (OCPs) by Environmental Protection Agency (EPA) Method 8081A to assess for potential residual OCPs from historic agricultural operations, imported fill and possible termiticides used on the structures.
- Ten discrete soil samples plus two duplicates were analyzed for CAM-17 metals by EPA Method 6010B/7471A from the fill material. Twelve soil samples plus one duplicate were collected and analyzed for lead and arsenic by EPA 6010B to assess for arsenic from pesticides and lead in soil associated with the former structures.
- Ten discrete soil samples plus two duplicates were collected and analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015B from the fill material.
- Seven soil samples plus two duplicates were collected and analyzed for PCBs by EPA Method 8082.
- Five discrete soil samples plus two duplicates were collected from the fill material and analyzed for semi volatile organics (SVOCs) by EPA Method 8270SIM.
- Six soil samples plus two duplicates were collected from the fill material and analyzed for asbestos by Polarized Light Microscopy (PLM).

The results of the field program are summarized below:

14. Conclusions and Recommendations

- Three OCPs were detected in the composite soil samples (4,4'- dichlorodiphenyldichloroethylene [DDE], 4,4'- dichlorodiphenyltrichloroethane [DDT], and dieldrin) collected and analyzed.
 - 4,4'-DDE was detected in concentrations ranging from a minimum of 0.0023 milligrams per kilogram (mg/kg) in the 3:1 composite sample B4, B5, B6 @ 1.5'/2.0' below ground surface (bgs), collected in the native soil, to a maximum concentration of 0.027 mg/kg in the 4:1 composite sample S1, S2, S3, S4 @ 4.5' bgs, which was collected in the native soil. The EPA Region 9 Regional Screening Levels (RSLs) for 4,4'-DDE adjusted for a 2:1 composite sample is 1 mg/kg and for a 4:1 composite sample the RSL is 0.50 mg/kg. The levels of 4,4'-DDE detected are below the RSLs.
 - 4,4'-DDT was detected in one 4:1 composite sample S1, S2, S3, S4 @ 4.5' bgs at a concentration of 0.0024 mg/kg. The RSL for 4,4'-DDT adjusted for a 4:1 composite sample is 0.48 mg/kg. The concentration of 4,4'-DDT detected at the site is below the RSL.
 - Dieldrin was only detected in the 4:1 composite sample S1, S2, S3, S4 @ 4.5' bgs at a concentration of 0.0057 mg/kg. The RSL for dieldrin adjusted for a 4:1 composite sample is 0.0085 mg/kg. The concentration of dieldrin detected is below the RSL.
- Arsenic was detected in two out of 22 soil samples plus four duplicates analyzed with the highest concentration of arsenic detected at 1.94 mg/kg found in soil sample B8 @ 0.5', collected from fill. The Department of Toxic Substance Control (DTSC) Screening Level (SL) for arsenic is 12 mg/kg. The levels of arsenic detected are below the DTSC SL for residential exposure⁷.
- Lead was detected in all 22 soil samples and three duplicate soil samples analyzed for lead. Lead concentrations ranged from a minimum of 1.76 mg/kg to a maximum concentration of 58.1 mg/kg. All lead concentrations are below the DTSC screening level of 80 mg/kg for residential exposure.
- All other metals were within typical background levels and were within screening levels and did not exceed EPA RSLs or DTSC SLs respectively.
- TPHs were not detected in any of the soil samples analyzed.
- SVOC were not detected in any of the soil samples analyzed.
- PCBs were not detected in any of the soil samples analyzed.
- Asbestos was not detected in the soil samples analyzed.

⁷ Department of Toxic Substance Control (DTSC) requires the residential land use scenario be used to evaluate school sites as it is the most conservative assessment.

14. Conclusions and Recommendations

- The human health risk screening showed that chemical concentrations would not be a risk to human health or the environment under an unrestricted residential land use scenario.
- Laboratory data obtained were validated to assure that Data Quality Objectives (DQOs) were met and the data were suitable for use in a human health and ecological screening evaluation.

RECOMMENDATIONS

The results of the PEA support the following conclusions and recommendations:

Based on the PEA objectives, the environmental quality goals of the District, and the results of the PEA investigation, PlaceWorks has determined that no further assessment is required for the site. Per California Education Code Section 17213.1, Section 3, PlaceWorks concludes that no further assessment of the site is necessary and is requesting an approval of the PEA.

14. Conclusions and Recommendations

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Tables

Tables

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TABLE 1
SAMPLING AND ANALYSIS PROGRAM
STEM Education Center
Riverside Unified School District
Riverside, California

Sample Number	Depth (feet bgs)	Depth of Fill Material	Rationale	EPA 8081A OCPs	EPA 6010/7471A CAM-17 Metals	EPA 6010 Arsenic	EPA 6010 Lead	EPA 8015B Total Petroleum Hydrocarbons	EPA 8270-SIM SVOCs	EPA 8082 PCBs	Asbestos Polarized Light Microscopy
S-1	1.5'	2.0'	Fill	C S-1, S-2, S-3, S-4	D			D		D	D
	2.5'		Historic Structure	C S-1, S-2, S-3, S-4		D	D				
	4.5'			C S-1, S-2, S-3, S-4							
S-2	1.5'	2.0'	Fill	C S-1, S-2, S-3, S-4				D			
	2.5'		Historic Structure	C S-1, S-2, S-3, S-4		D	D				
	4.5'			C S-1, S-2, S-3, S-4							
S-3	1.5'	2.0'	Fill	C S-1, S-2, S-3, S-4	D				D	D	
	2.5'		Historic Structure	C S-1, S-2, S-3, S-4		D	D				
	4.5'			C S-1, S-2, S-3, S-4							
S-4	1.5'	2.0'	Fill	C S-1, S-2, S-3, S-4							
	2.5'		Historic Structure	C S-1, S-2, S-3, S-4		D	D				
	4.5'			C S-1, S-2, S-3, S-4							
S-5	0.5'	0.5'	Fill	C S-5, S-6, S-7, S-8							
	1.0'		Historic Structure	C S-5, S-6, S-7, S-8		D	D				
	3.0'			C S-5, S-6, S-7, S-8							
S-6	0.5'	1.0'	Fill	C S-5, S-6, S-7, S-8							
	1.5'		Historic Structure	C S-5, S-6, S-7, S-8		D	D				
	3.5'			C S-5, S-6, S-7, S-8							
S-7	0.5'	1.0'	Fill	C S-5, S-6, S-7, S-8	D			D			
	1.5'		Historic Structure	C S-5, S-6, S-7, S-8		D	D				
	3.5'			C S-5, S-6, S-7, S-8							
S-8	0.5'	1.0'	Fill	C S-5, S-6, S-7, S-8	D			D	D	D	D
	1.5'		Historic Structure	C S-5, S-6, S-7, S-8		D	D				
	3.5'			C S-5, S-6, S-7, S-8							
F-1	0.5'	1.0'	Fill	C F-1, F-2, F-3	D				D		
F-2	0.5'	1.0'	Fill	C F-1, F-2, F-3				D	D		
F-3	0.5'	1.0'	Fill	C F-1, F-2, F-3							
F-4	0.5'	1.0'	Fill	C F-4, F-5				D			
F-5	0.5'	1.0'	Fill	C F-4, F-5	D						
F-6	0.5'	1.0'	Fill	-		D	D	D	D	D	
B-1	0.5'	1.0'	Fill	C B-1, B-2, B-3							
	1.5'		Agriculture	C B-1, B-2, B-3							
	3.5'			-							
B-1 DUP	0.5'	1.0'	Duplicate	-							
	1.5'		C B-1 DUP, B-2 DUP, B-3 DUP								
B-2	0.5'	1.0'	Fill	C B-1, B-2, B-3							
	1.5'		Agriculture	C B-1, B-2, B-3							
	3.5'			-							
B-2 DUP	0.5'	1.0'	Duplicate	-							
	1.5'		C B-1 DUP, B-2 DUP, B-3 DUP								
B-3	0.5'	1.0'	Fill	C B-1, B-2, B-3	D			D	D	D	D
	1.5'		Agriculture	C B-1, B-2, B-3		D	D				
	3.5'			-							
B-3 DUP	0.5'	1.0'	Duplicate	-	DUP			DUP	DUP	DUP	DUP
	1.5'		C B-1 DUP, B-2 DUP, B-3 DUP		DUP	DUP					
B-4	1.0'	1.5'	Fill	C B-4, B-5, B-6							
	2.0'		Agriculture	C B-4, B-5, B-6							
	4.0'			-							
B-5	0.5'	1.0'	Fill	C B-4, B-5, B-6				D			
	1.5'		Agriculture	C B-4, B-5, B-6		D	D				
	3.5'			-							
B-6	0.5'	1.0'	Fill	C B-4, B-5, B-6	D						
	1.5'		Agriculture	C B-4, B-5, B-6							
	3.5'			-							
B-7	1.0'	1.5'	Fill	C B-7, B-8, B-9							
	2.0'		Agriculture	C B-7, B-8, B-9							
	4.0'			-							
B-8	0.5'	0.5'	Fill	C B-7, B-8, B-9	D					D	D
	1.0'		Agriculture	C B-7, B-8, B-9							

TABLE 1
SAMPLING AND ANALYSIS PROGRAM
STEM Education Center
Riverside Unified School District
Riverside, California

Sample Number	Depth (feet bgs)	Depth of Fill Material	Rationale	EPA 8081A OCPs	EPA 6010/7471A CAM-17 Metals	EPA 6010 Arsenic	EPA 6010 Lead	EPA 8015B Total Petroleum Hydrocarbons	EPA 8270-SIM SVOCs	EPA 8082 PCBs	Asbestos Polarized Light Microscopy
B-9	3.0'	4.0'	Agriculture	-							
	2.0'		Fill	C B-7, B-8, B-9			D	D			
	5.0'		Agriculture	C B-7, B-8, B-9		D	D				
	7.0'			-							
B-10	1.0'	1.5'	Fill	C B-10, B-11, B-12							
	2.0'		Agriculture	C B-10, B-11, B-12							
	4.0'		-								
B-11	0.5'	1.0'	Fill	C B-10, B-11, B-12							
	1.5'		Agriculture	C B-10, B-11, B-12							
	3.5'		-								
B-12	1.0'	1.5'	Fill	C B-10, B-11, B-12	D			D		D	D
	2.0'		Agriculture	C B-10, B-11, B-12		D	D				
	4.0'			-							
B-13	0.5'	0'	Agriculture	C B-13, C B-14, C B-15, C B-16							
	2.5'		-								
B-13 DUP	0.5'	0'	Duplicate	C B-13DUP, C B-14DUP, C B-							
B-14	0.5'	0.75'	Fill	C B-14, C B-15	D			D	D	D	D
	1.0'		Agriculture	C B-13, C B-14, C B-15, C B-16							
	3.0'			-							
B-14 DUP	0.5'	0.75'	Duplicate	C B-13DUP, C B-14DUP, C B-	DUP			DUP	DUP	DUP	DUP
	1.0'		Duplicate			DUP					
B-15	0.5'	1.0'	Fill	C B-14, C B-15	D			D			
	1.5'		Agriculture	C B-13, C B-14, C B-15, C B-16							
	3.5'			-							
B-15 DUP	1.5'	1	Agriculture	C B-13DUP, C B-14DUP, C B-							
B-16	0.5'	0'	Agriculture	C B-13, C B-14, C B-15, C B-16							
	2.5'		-								
B-16 DUP	0.5'	0'	Duplicate	C B-13DUP, C B-14DUP, C B-							
Total				18 C, 2 DUP, 1EB	13 D, 2 DUP, 1EB	14 D, 2 DUP, 1EB	14 D, 1 DUP, 1EB	13 D, 2 DUP, 1EB	7 D, 2 DUP, 1EB	9 D, 2 DUP, 1EB	5 D, 1 DUP

Note:
OCPs = organochlorine pesticides, SVOCs - semi-volatile organic compounds, CAM-17 Metals = California Title 22
D = Discrete ; C = Composite ; DUP = Duplicate; EB = Equipment blank; - sample collected and placed on hold
Yellow shaded samples are located offsite.

TABLE 2
SUMMARY TABLE OF ORGANOCHLORINE PESTICIDES IN SOIL
STEM Education Center
Riverside Unified School District
Riverside, California

				Concentration (milligrams per kilogram [mg/kg])		
Sample Number	Sample Depth	Fill? Y/N	Sample Date	4,4'-DDE	4,4'-DDT	Dieldrin
F1, F2, F3	0.5'	Y	10/22/2019	<0.0020	<0.0020	<0.0020
F4, F5	0.5'	Y	10/22/2019	0.002	<0.0020	<0.0020
S1, S2, S3, S4	1.5'	Y	10/22/2019	<0.0020	<0.0020	<0.0020
	2.5'	N	10/22/2019	<0.0020	<0.0020	<0.0020
	4.5'	N	10/22/2019	0.027	0.0024	0.0057
S5, S6, S7, S8	0.5'	Y	10/22/2019	<0.0020	<0.0020	<0.0020
	1.0'/1.5'	N	10/22/2019	0.011	<0.0020	<0.0020
	3.5'	N	10/22/2019	<0.0020	<0.0020	<0.0020
B1, B2, B3	0.5'	Y	10/22/2019	<0.0020	<0.0020	<0.0020
	1.5'	N	10/22/2019	<0.0020	<0.0020	<0.0020
B1 DUP, B2 DUP, B3 DUP	1.5'	N	10/22/2019	<0.0020	<0.0020	<0.0020
B4, B5, B6	0.5'/1.0'	Y	10/22/2019	0.0036	<0.0020	<0.0020
	1.5'/2.0'	N	10/22/2019	0.0023	<0.0020	<0.0020
B7, B8, B9	0.5'/1.0'/2.0'	Y	10/22/2019	0.0032	<0.0020	<0.0020
	1.0'/2.0'/5.0'	N	10/22/2019	<0.0020	<0.0020	<0.0020
B10, B11, B12	0.5'/1.0'	Y	10/22/2019	0.003	<0.0020	<0.0020
	1.5'/2.0'	N	10/22/2019	< 0.0020	<0.0020	<0.0020
B13, B14, B15, B-16	0.5'/1.5'	N	5/1/2020	<0.0020	<0.0020	<0.0020
B13 DUP, B14 DUP, B15 DUP, B-16 DUP	0.5'/1.5'	N	5/1/2020	<0.0020	<0.0020	<0.0020
B14, B15	0.5'	Y	5/1/2020	0.0073	<0.0020	<0.0020
EQUIPMENT BLANK				Concentration micrograms per liter (µg/l)		
EB102219			10/22/2019	<0.050	<0.050	<0.050
EB050120			5/1/2020	<0.050	<0.050	<0.050
Minimum Concentration Detected				0.002	0.0024	0.0057
Maximum Concentration Detected				0.027	0.0024	0.0057
EPA Region 9 RSLs				2	1.9	0.034
EPA Region 9 RSLs for 2:1 Composite				1	0.95	0.017
EPA Region 9 RSLs for 3:1 Composite				0.67	0.63	0.011
EPA Region 9 RSLs for 4:1 Composite				0.50	0.48	0.0085
DTSC SLs				NA	NA	0.034 *

Notes:

EPA= Environmental Protection Agency, RSL= Regional Screening Levels May 2023 residential soil mg/kg

DTSC= Department of Toxic Substances Control, SLs= Screening Levels May 2022 residential soil mg/kg

*EPA RSL and DTSC SLs same for dieldrin; DTSC SLs not available for DDE and DDT

Samples analyzed by EPA Method 8081A

The complete laboratory analytical reports are included in Appendix E.

Yellow shaded samples are located offsite.

TABLE 3
SUMMARY TABLE OF CAM-17 METALS IN SOIL
STEM Education Center
Riverside Unified School District
Riverside, California

Concentration (milligrams per kilogram [mg/kg])												
Sample Number	Sample Depth	Fill? Y/N	Sample Date	Arsenic	Barium	Chromium	Cobalt	Copper	Lead	Nickel	Vanadium	Zinc
F1	0.5'	Y	10/22/2019	<1.00	108	12.4	4.18	7.38	11.2	5.06	27	41.8
F5	0.5'	Y	10/22/2019	<1.00	94.3	11.2	4.06	6.51	7.43	4.37	25.1	33.6
F6	0.5'	Y	5/11/2020	<1.00	68.5	7.94	3.29	5	5.19	3.75	20.3	24.6
S1	1.5'	Y	10/22/2019	<1.00	98.4	13.7	4.9	6.49	5.29	5.57	31.2	27.8
	2.5'	N	10/22/2019	<1.00	NA	NA	NA	NA	4.56	NA	NA	NA
S2	2.5'	N	10/22/2019	<1.00	NA	NA	NA	NA	4.46	NA	NA	NA
S3	1.5'	Y	10/22/2019	<1.00	96.2	13.6	5.23	5.72	3.85	5.97	31	25
	2.5'	N	10/22/2019	<1.00	NA	NA	NA	NA	3.1	NA	NA	NA
S4	2.5'	N	10/22/2019	<1.00	NA	NA	NA	NA	2.87	NA	NA	NA
S5	1.0'	N	10/22/2019	<1.00	NA	NA	NA	NA	58.1	NA	NA	NA
S6	1.0'	Y	10/22/2019	<1.00	NA	NA	NA	NA	4.77	NA	NA	NA
S7	0.5'	Y	10/22/2019	<1.00	98.8	12.2	4.28	7.31	29.4	4.65	27	37
S8	0.5'	Y	10/22/2019	<1.00	103	14.4	5.19	7.74	10.2	5.4	33.8	40.3
	1.5'	N	10/22/2019	<1.00	NA	NA	NA	NA	3.27	NA	NA	NA
B3	0.5'	Y	10/22/2019	<1.00	71	10.5	3.78	5.76	8.91	3.79	25.3	34.6
	1.5'	N	10/22/2019	<1.00	NA	NA	NA	NA	25	NA	NA	NA
B3 DUP	0.5'	Y	10/22/2019	<1.00	103	17	4.81	7.08	4.2	5.49	45	26.7
	1.5'	N	10/22/2019	<1.00	NA	NA	NA	NA	11.1	NA	NA	NA
B5	1.5'	N	10/22/2019	<1.00	NA	NA	NA	NA	10.7	NA	NA	NA
B6	0.5'	Y	10/22/2019	1.03	70.4	10.5	3.7	8.94	8.76	4.12	25.3	41.1
B8	0.5'	Y	10/22/2019	1.94	84.6	11.3	3.71	10.5	13.6	4.25	24.8	46
B9	5'	N	10/22/2019	<1.00	NA	NA	NA	NA	1.76	NA	NA	NA
B12	1.0'	Y	10/22/2019	<1.00	74.5	9.63	3.47	8.13	10.2	4.09	19.3	26.4
	2.0'	N	10/22/2019	<1.00	NA	NA	NA	NA	2.3	NA	NA	NA
B14	0.5'	Y	5/1/2020	<1.00	77.2	11	3.5	16.6	6.83	5.43	23.5	60.5
	1.0'	N	5/1/2020	<1.00	NA	NA	NA	NA	NA	NA	NA	NA
B14 DUP	0.5'	Y	5/1/2020	<1.00	75.1	10.5	3.46	13.2	6.78	5.44	22.8	51.4
	1.0'	N	5/1/2020	<1.00	NA	NA	NA	NA	NA	NA	NA	NA
B15	0.5'	Y	5/1/2020	<1.00	83.2	11.8	4.2	10.7	6.32	5.54	29.3	44.2
Equipment Blank				Concentration micrograms per liter (µg/l)								
EB050120				<0.0200	<0.0100	<0.0100	<0.00500	<0.0100	<0.0200	<0.0100	<0.0100	<0.0400
EB102219				<0.0200	<0.0100	<0.0100	<0.00500	<0.0100	<0.0200	<0.0100	<0.0100	<0.0400
Background**				<1	70-180	6-13.5	2-6.8	1-9.1	0.8-4.9	1-7.4	16-34	19-53
Minimum Concentration				1.03	70.4	9.63	3.46	5.72	1.76	3.79	19.3	25
Maximum Concentration Detected				1.94	103	17	5.23	16.6	58.1	5.97	45	60.5
EPA Region 9 RSLs or DTSC SL				12*	15000	120000	23	3100	80*	1500	390	23000

Notes:

< - Non detect at the established method detection limit. DUP = Duplicate Sample

**Background data from Riverside Unified School District Spring Street PEA 2019

EPA= Environmental Protection Agency, RSL= Regional Screening Levels May 2023 residential soil mg/kg

DTSC= Department of Toxic Substances Control, SLs= Screening Levels May 2022 residential soil mg/kg

Samples analyzed by EPA Method 6020/7471A

The complete laboratory analytical reports are included in Appendix E.

Antimony, beryllium, cadmium, mercury, molybdenum, selenium, silver and thallium were nondetect in all samples analyzed.

Yellow shaded samples are located offsite.

TABLE 4
SUMMARY TABLE OF TPH IN SOIL
STEM Education Center
Riverside Unified School District
Riverside, California

Sample Number	Sample Depth	Fill? Y/N	Sample Date	Concentration (milligram per kilogram [mg/kg])		
				C4-C12	C13-C22	C23-C44
F2	0.5'	Y	10/22/2019	<0.20	<10	<20
F4	0.5'	Y	10/22/2019	<0.20	<10	<20
F6	0.5'	Y	5/1/2020	<0.20	<10	<20
S1	1.5'	Y	10/22/2019	<0.20	<10	<20
S2	1.5'	Y	10/22/2019	<0.20	<10	<20
S7	0.5'	Y	10/22/2019	<0.20	<10	<20
S8	0.5'	Y	10/22/2019	<0.20	<10	<20
B3	0.5'	Y	10/22/2019	<0.20	<10	<20
B3 DUP	0.5'	Y	10/22/2019	<0.20	<10	<20
B5	0.5'	Y	10/22/2019	<0.20	<10	<20
B9	2.0'	Y	10/22/2019	<0.20	<10	<20
B12	1.0'	Y	10/22/2019	<0.20	<10	<20
B14	0.5'	Y	5/1/2020	<0.20	<10	<20
B14 DUP	0.5'	Y	5/1/2020	<0.20	<10	<20
B15	0.5'	Y	5/1/2020	<0.20	<10	<20
EQUIPMENT BLANK			Concentration (milligram per liter [mg/L])			
EB102219			<100	<0.40	<0.80	
EB050120			<100	<0.40	<0.80	
SFRWQCB ESLs			100	260	1,600	

Notes:

< - Non detect at the established method detection limit.

Samples analyzed by EPA Method 8015 B; DUP = duplicate sample

The complete laboratory analytical reports are included in Appendix E.

SFRWQCB ESLs - San Francisco Regional Water Quality Control Board Screening Levels (2019 Rev.2)

C6-C12 TPH g; C13-C22 TPH diesel; C23-C44 TPH motor oil

Yellow shaded samples are located offsite.

TABLE 5 SVOCs
SUMMARY TABLE OF SVOCs IN SOIL
STEM Education Center
Riverside Unified School District
Riverside, California

Sample Number	Sample Depth	Fill? Y/N	Sample Date	Concentration (milligrams per kilogram [mg/kg])						
				Benzo(a)anthracene	Chrysene	Fluoranthene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
F2	0.5'	Y	10/22/2019	<0.010	<0.010	<0.010	<0.010	<0.015	<0.010	<0.010
F6	0.5'	Y	5/1/2020	<0.010	<0.010	<0.010	<0.010	<0.015	<0.010	<0.010
S3	1.5'	Y	10/22/2019	<0.010	<0.010	<0.010	<0.010	<0.015	<0.010	<0.010
S8	0.5'	Y	10/22/2019	<0.010	<0.010	<0.010	<0.010	<0.015	<0.010	<0.010
B3	0.5'	Y	10/22/2019	<0.010	<0.010	<0.010	<0.010	<0.015	<0.010	<0.010
B3 DUP	0.5'	Y	10/22/2019	<0.010	<0.010	<0.010	<0.010	<0.015	<0.010	<0.010
B9	2.0'	Y	10/22/2019	<0.010	<0.010	<0.010	<0.010	<0.015	<0.010	<0.010
B14	0.5'	Y	5/1/2020	<0.010	<0.010	<0.010	<0.010	<0.015	<0.010	<0.010
B14 DUP	0.5'	Y	5/1/2020	<0.010	<0.010	<0.010	<0.010	<0.015	<0.010	<0.010
Equipment Blank				Concentration micrograms per liter (µg/l)						
EB050120				<5.0	<5.0	<5.0	<9.50	<5.0	<5.0	<5.0
EB102219				<5.0	<5.0	<5.0	<9.50	<5.0	<5.0	<5.0
EPA Region 9 RSLs				1.1	110	2,400	1.1	3.8	NA	1,800
DTSC Screening Levels				1.1	110	2,400	1.1	2.0	NA	1,800

Notes:

< - Non detect at the established method detection limit; DUP = duplicate sample

Samples analyzed by EPA Method 8270SIM

The complete laboratory analytical reports are included in Appendix E.

EPA= Environmental Protection Agency, RSL= Regional Screening Levels May 2023 residential soil mg/kg; NA = Not available

DTSC= Department of Toxic Substances Control, SLs= Screening Levels May 2022 residential soil mg/kg

Yellow shaded samples are located offsite.

Table 6
SUMMARY TABLE OF POLYCHLORINATED BIPHENYLS
STEM Education Center
Riverside Unified School District
Riverside, California

Sample Number	Sample Depth	Fill? Y/N	Sample Date	Concentration (micrograms per kilogram [µg/kg])						
				PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
F1	0.5'	Y	10/22/2019	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
F6	0.5'	Y	5/1/2020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
S1	1.5'	Y	10/22/2019	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
S3	1.5'	Y	10/22/2019	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
S8	0.5'	Y	10/22/2019	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B3	0.5'	Y	10/22/2019	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B3 DUP	0.5'	Y	10/22/2019	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B8	0.5'	Y	10/22/2019	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B12	1.0'	Y	10/22/2019	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B14	0.5'	Y	5/1/2020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B14DUP	0.5'	Y	5/1/2020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Equipment Blank				Concentration (microgram per liter [µg/L])						
EB050120				<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
EB102219				<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

< - Non detect at the established method detection limit. DUP = Duplicate Sample

Samples analyzed by EPA Method 8082

The complete laboratory analytical reports are included in Appendix E.

Yellow shaded samples are located offsite.

TABLE 7
SUMMARY TABLE OF BULK ASBESTOS ANALYSIS
STEM Education Center
Riverside Unified School District
Riverside, California

Sample Number	Sample Depth	Fill? Y/N	Sample Date	Asbestos by PLM/DS
S1	1.5'	Y	10/22/2019	NVA
S8	0.5'	Y	10/22/2019	NVA
B3	0.5'	Y	10/22/2019	NVA
B3 DUP	0.5'	Y	10/22/2019	NVA
B8	0.5'	Y	10/22/2019	NVA
B12	1.0'	Y	10/22/2019	NVA
B14	0.5'	Y	5/1/2020	NVA
B14 DUP	0.5'	Y	5/1/2020	NVA

Notes: NVA = No Visible Asbestos

The complete laboratory analytical reports are included in Appendix E.

PLM Polarized Light Microscopy EPA Method 600/R-93/116

Appendix A. Site Photographs

Appendix

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Client Name: Riverside Unified School District
Site Location: STEM Education Center
Project No.: RIV-36.0

Photo No: 1	Date: 10/22/2019
-----------------------	----------------------------

Description:

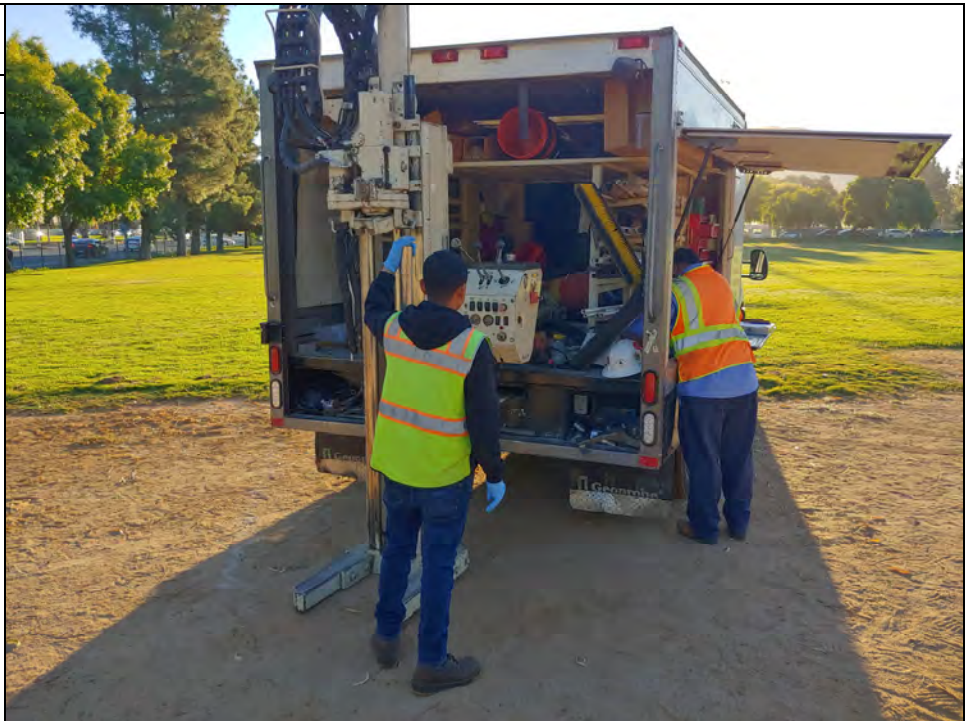
View of western portion of the site looking south.



Photo No: 2	Date: 10/22/2019
-----------------------	----------------------------

Description:

View of drilling activities at S4 looking east.





Client Name: Riverside Unified School District
Site Location: STEM Education Center
Project No.: RIV-36.0

Photo No: 3
Date: 10/22/2019

Description:

View of central portion of the site looking east.



Photo No: 4
Date: 10/22/2019

Description:

View of work notice posted on the northwest corner of the site, looking east.





Client Name: Riverside Unified School District
Site Location: STEM Education Center
Project No.: RIV-36.0

Photo No: 5	Date: 10/18/2022
-----------------------	----------------------------

Description:

View of western portion of the site looking north. Two cell phone towers are located along the northern portion of the site adjacent to Blaine Street.



Photo No: 6	Date: 10/18/2022
-----------------------	----------------------------

Description:

View of the site looking southwest.





Client Name: Riverside Unified School District
Site Location: STEM Education Center
Project No.: RIV-36.0

Photo No: 7	Date: 10/18/2022
-----------------------	----------------------------

Description:

View of southern portion of the site looking west.



Photo No: 8	Date: 10/18/2022
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Description:


View of the entrance to Lot 26 from Canyon Crest Drive looking northeast.



Appendix B. Research Documentation

Appendix

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STEM Academy
Blaine St/Canyon Crest Dr
Riverside, CA 92507

Inquiry Number: 5020464.6

August 14, 2017

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/14/17

Site Name:

STEM Academy
Blaine St/Canyon Crest Dr
Riverside, CA 92507
EDR Inquiry # 5020464.6

Client Name:

PlaceWorks
3 MacArthur Place Suite 1100
Santa Ana, CA 92707
Contact: Michael Watson



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1978	1"=500'	Flight Date: September 20, 1978	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1968	1"=500'	Flight Date: September 09, 1968	USDA
1966	1"=500'	Flight Date: April 16, 1966	USGS
1953	1"=500'	Flight Date: January 23, 1953	USDA
1949	1"=500'	Flight Date: May 06, 1949	USDA
1938	1"=500'	Flight Date: July 05, 1938	USDA
1931	1"=500'	Flight Date: September 18, 1931	USGS

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INQUIRY #: 5020464.6

YEAR: 2012

— = 500'





INQUIRY # 5020464.6

YEAR: 2010

— = 500'





INQUIRY #: 5020464.6

YEAR: 2009

— = 500'





INQUIRY #: 5020464.6

YEAR: 2006

— = 500'



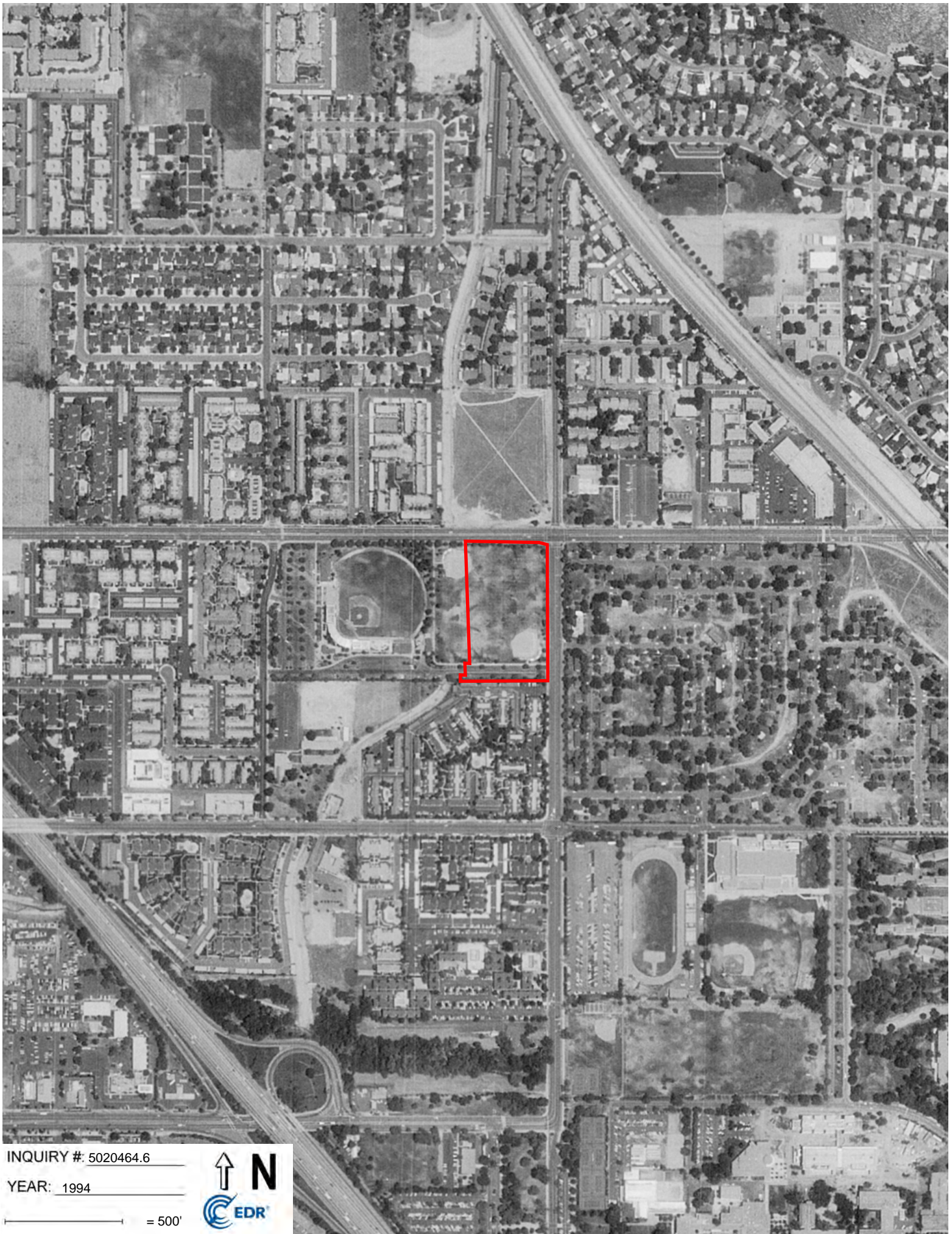


INQUIRY #: 5020464.6

YEAR: 2005

— = 500'



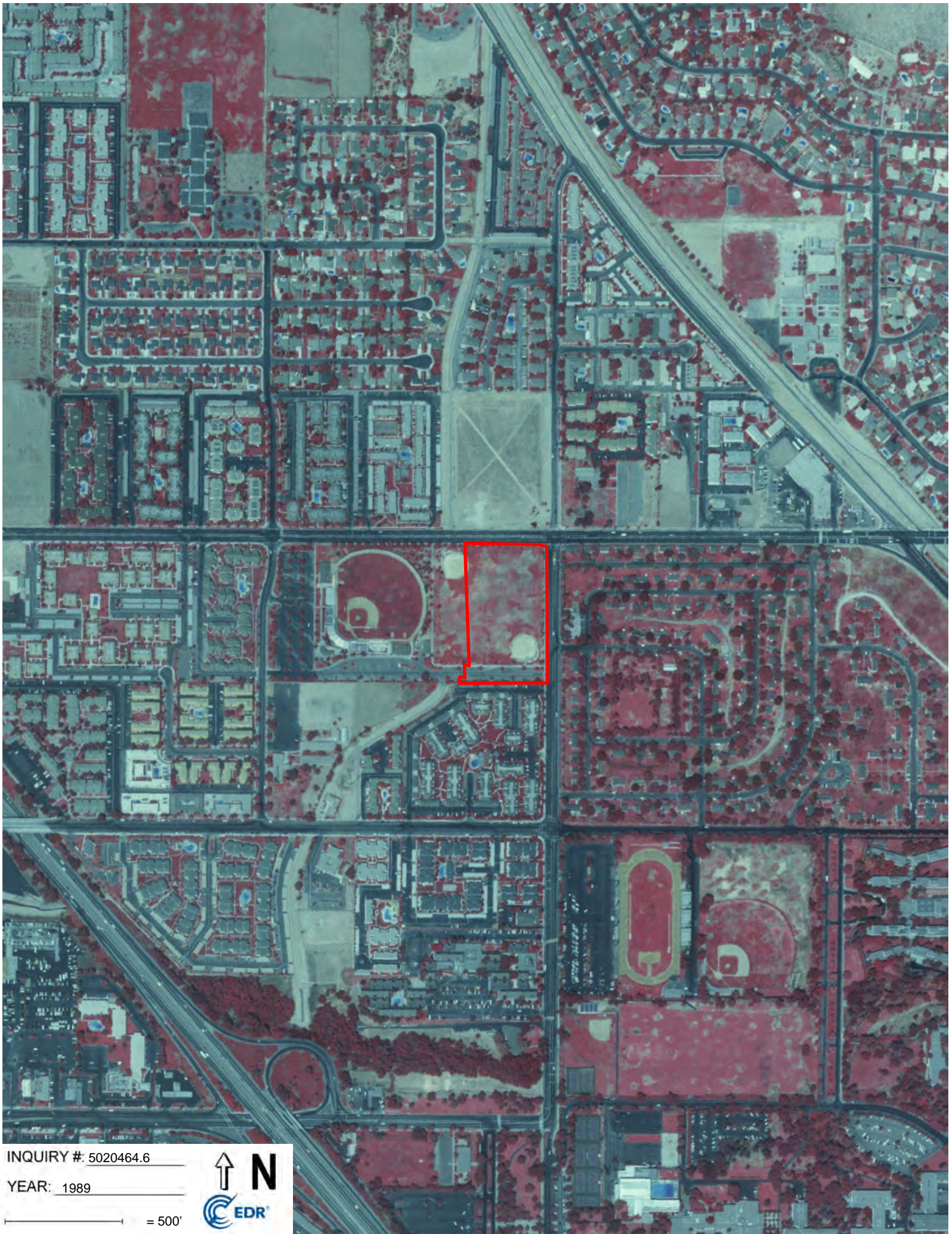


INQUIRY #: 5020464.6

YEAR: 1994

— = 500'





INQUIRY #: 5020464.6

YEAR: 1989

— = 500'





INQUIRY #: 5020464.6

YEAR: 1985

— = 500'



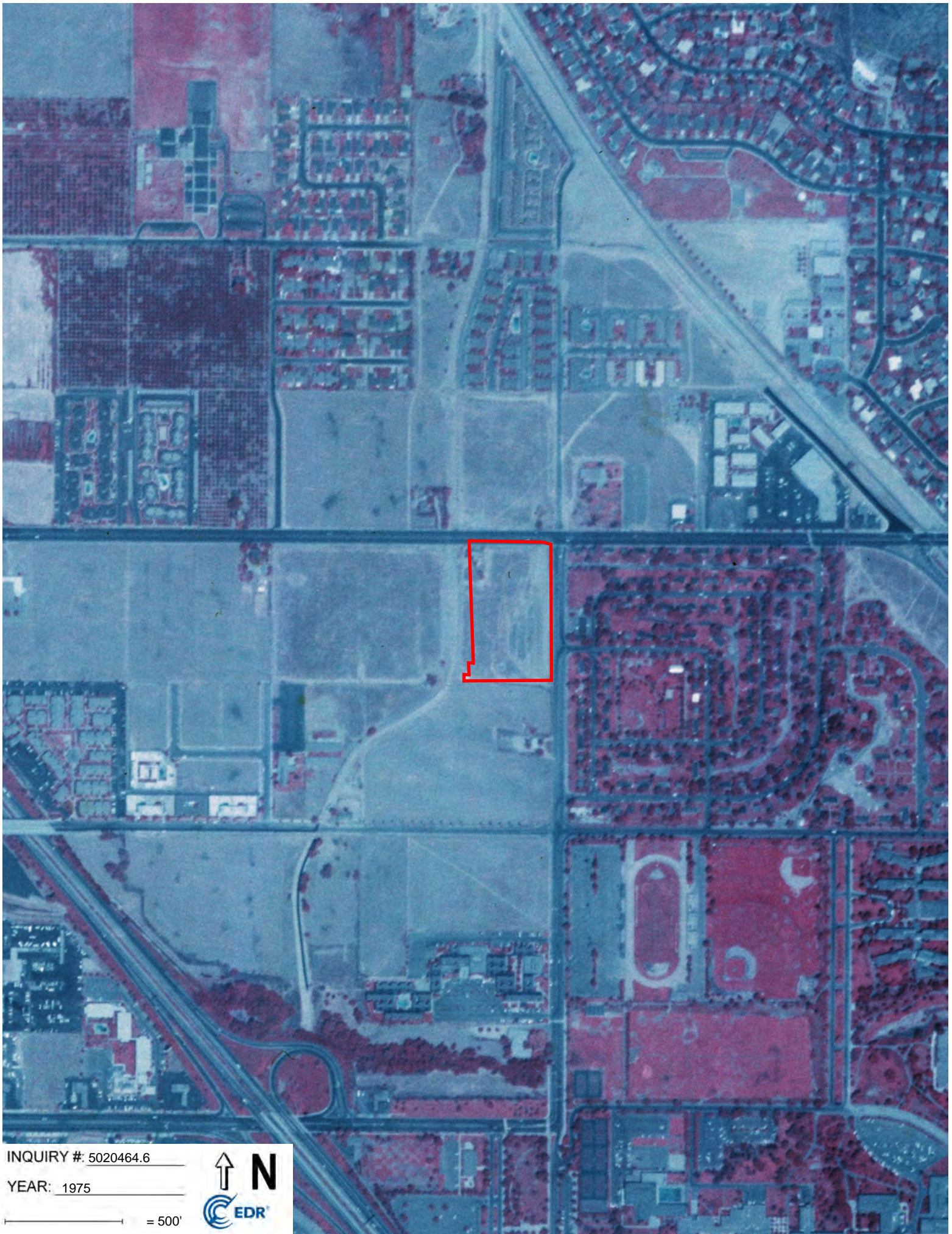


INQUIRY #: 5020464.6

YEAR: 1978

— = 500'



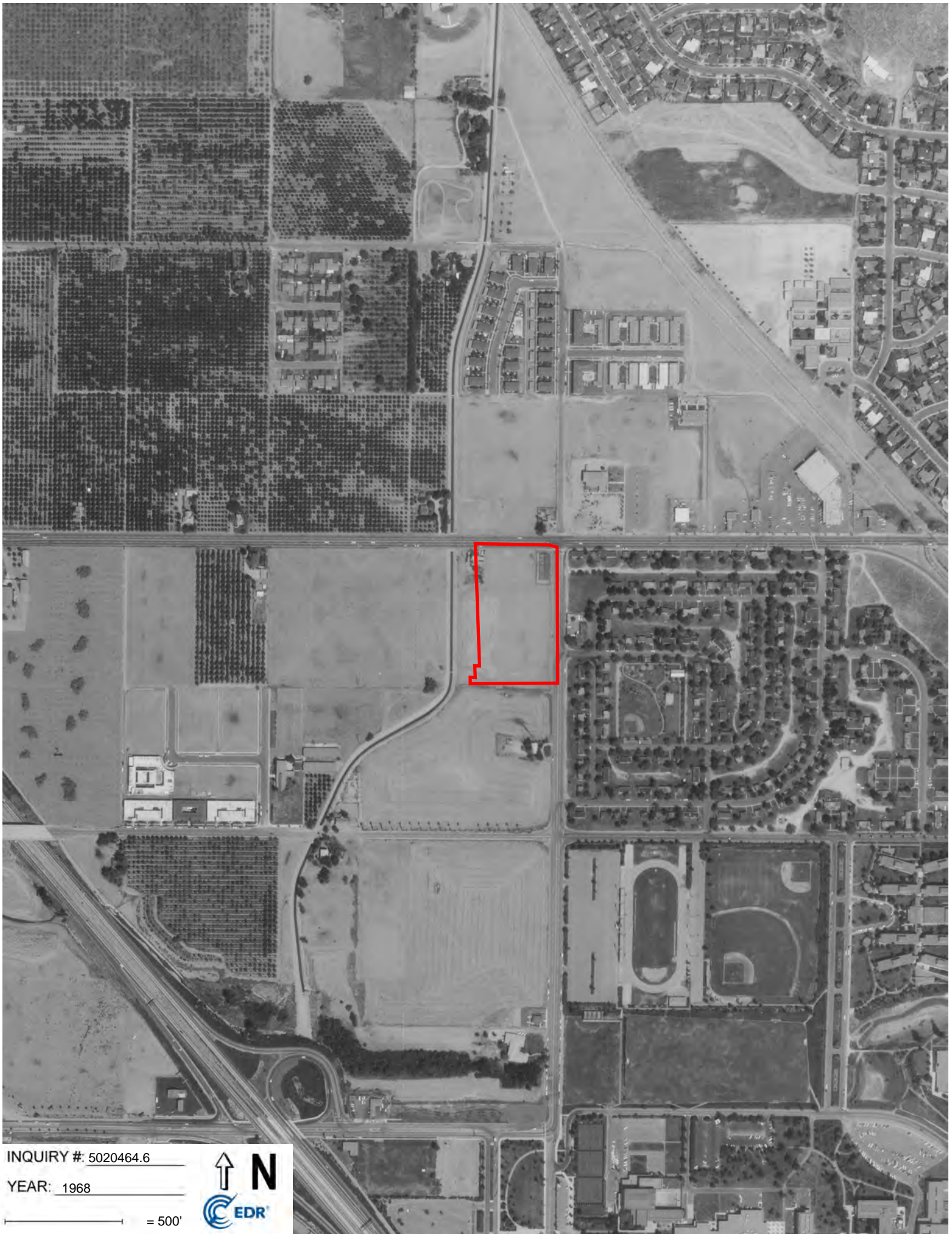


INQUIRY #: 5020464.6

YEAR: 1975

— = 500'



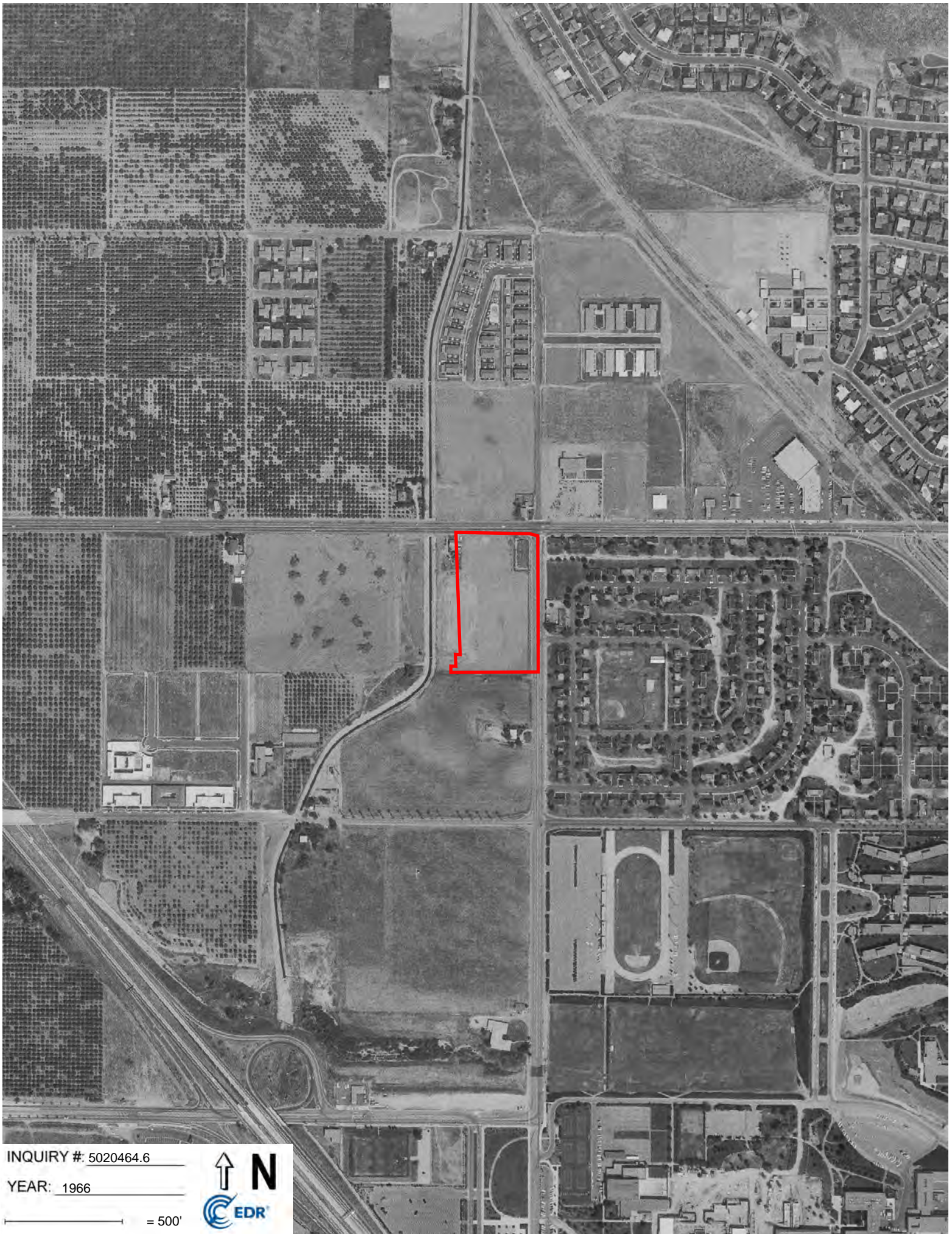


INQUIRY #: 5020464.6

YEAR: 1968

— = 500'



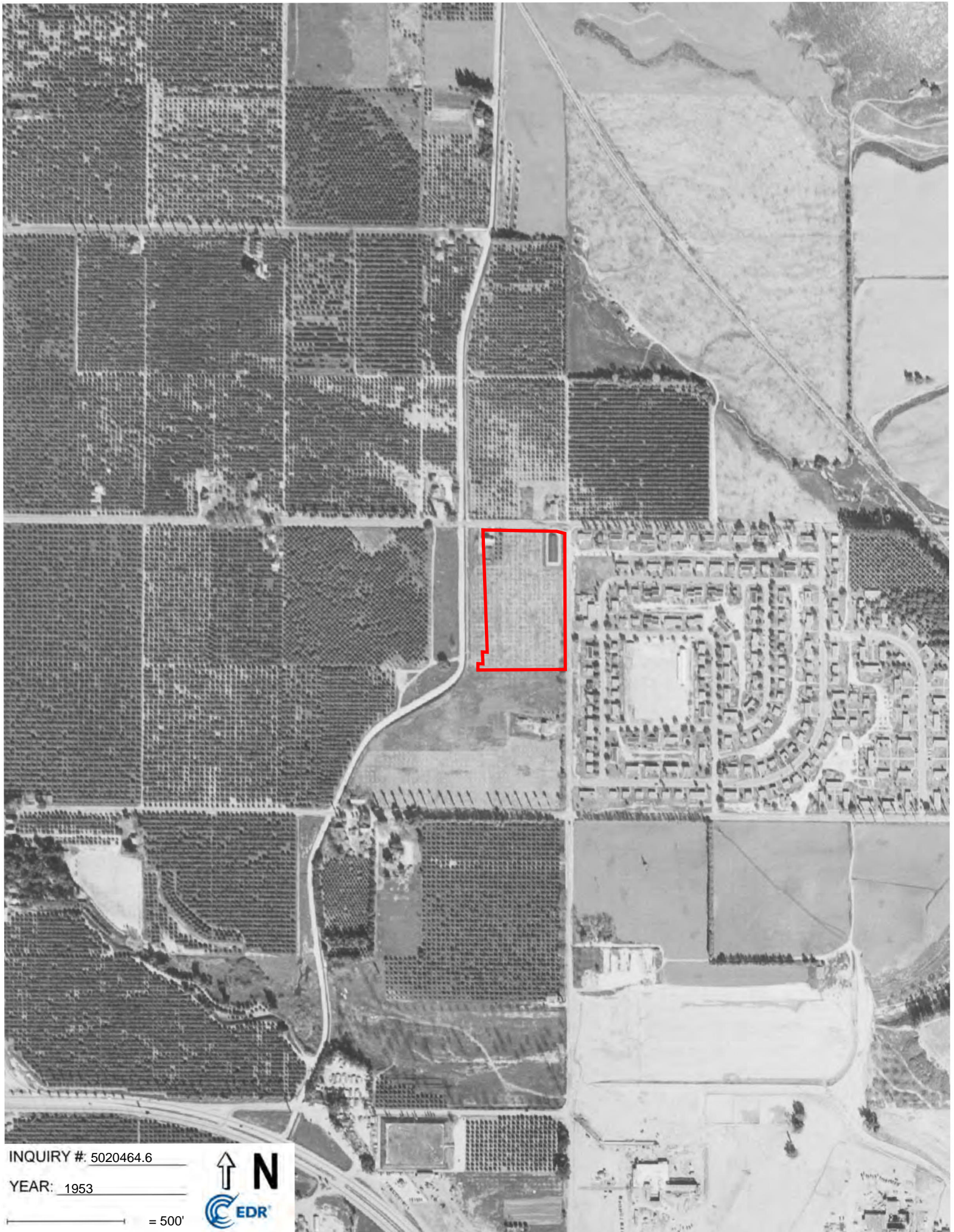


INQUIRY #: 5020464.6

YEAR: 1966

— = 500'



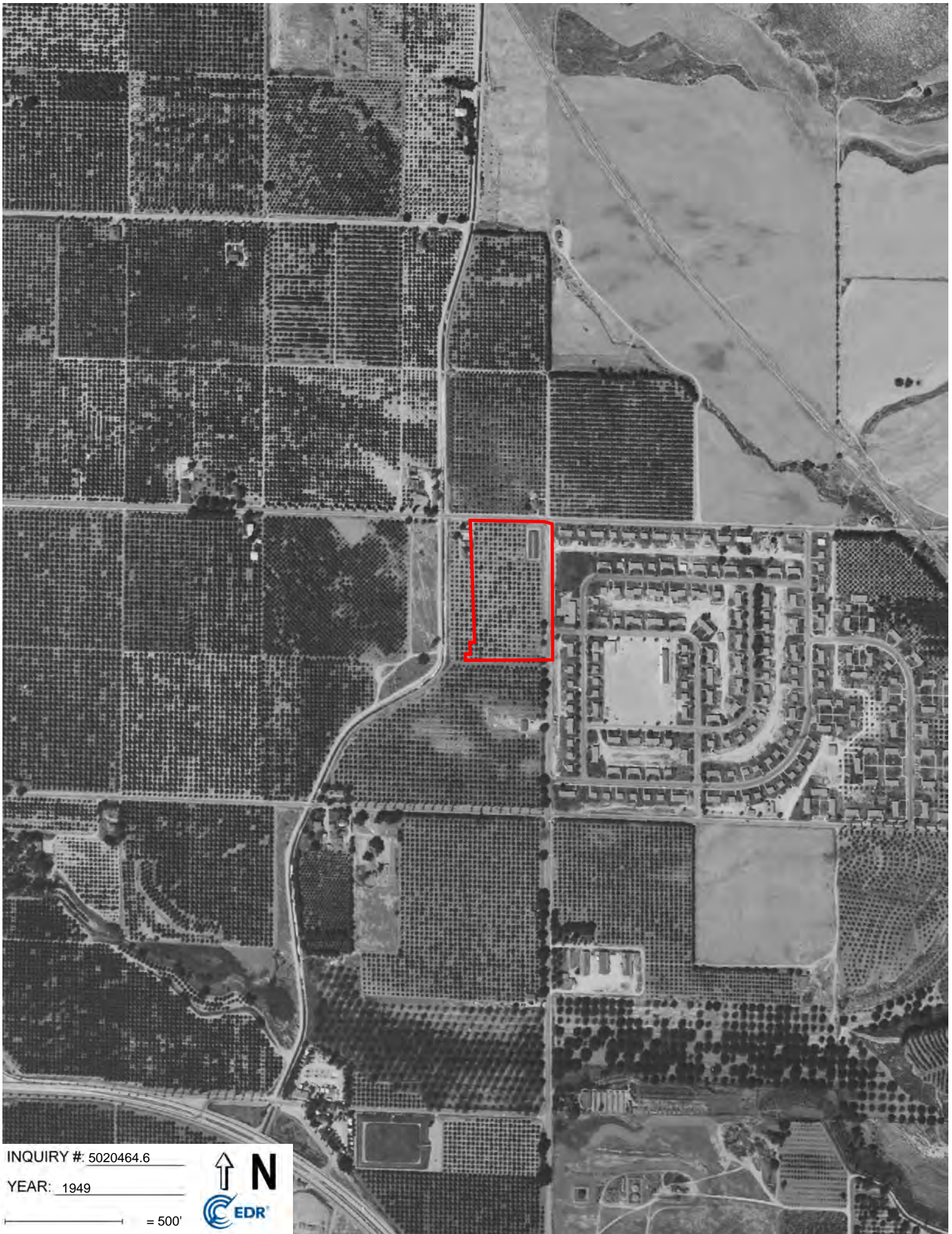


INQUIRY # 5020464.6

YEAR: 1953

— = 500'





INQUIRY #: 5020464.6

YEAR: 1949

— = 500'





INQUIRY #: 5020464,6

YEAR: 1938

— = 500'






= 500'

YEAR: 1931

INQUIRY #: 5020464.6





STEM Academy
Blaine St/Canyon Crest Dr
Riverside, CA 92507

Inquiry Number: 5020464.5

August 11, 2017

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

08/11/17

Site Name:

STEM Academy
Blaine St/Canyon Crest Dr
Riverside, CA 92507
EDR Inquiry # 5020464.5

Client Name:

PlaceWorks
3 MacArthur Place Suite 1100
Santa Ana, CA 92707
Contact: Michael Watson



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by PlaceWorks were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	NA	Latitude:	33.98208 33° 58' 55" North
Project:	RIV-17.0	Longitude:	-117.33231 -117° 19' 56" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	469305.38
		UTM Y Meters:	3760218.80
		Elevation:	1028.00' above sea level

Maps Provided:

2012
1980
1967
1953, 1954
1942, 1947
1938, 1942
1901

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

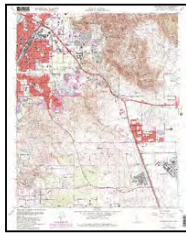


Riverside East
2012
7.5-minute, 24000



San Bernardino South
2012
7.5-minute, 24000

1980 Source Sheets



Riverside East
1980
7.5-minute, 24000
Aerial Photo Revised 1978

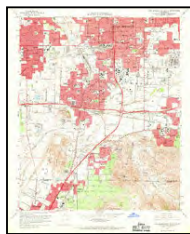


San Bernardino South
1980
7.5-minute, 24000
Aerial Photo Revised 1979

1967 Source Sheets



Riverside East
1967
7.5-minute, 24000
Aerial Photo Revised 1966

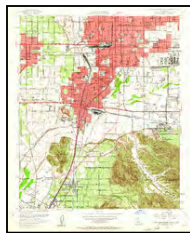


San Bernardino South
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1953, 1954 Source Sheets



Riverside East
1953
7.5-minute, 24000
Aerial Photo Revised 1951



San Bernardino South
1954
7.5-minute, 24000
Aerial Photo Revised 1952

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1942, 1947 Source Sheets



SAN BERNARDINO
1942
15-minute, 50000



RIVERSIDE
1947
15-minute, 50000

1938, 1942 Source Sheets

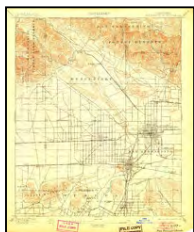


Colton
1938
7.5-minute, 31680



RIVERSIDE VICINITY
1942
7.5-minute, 31680

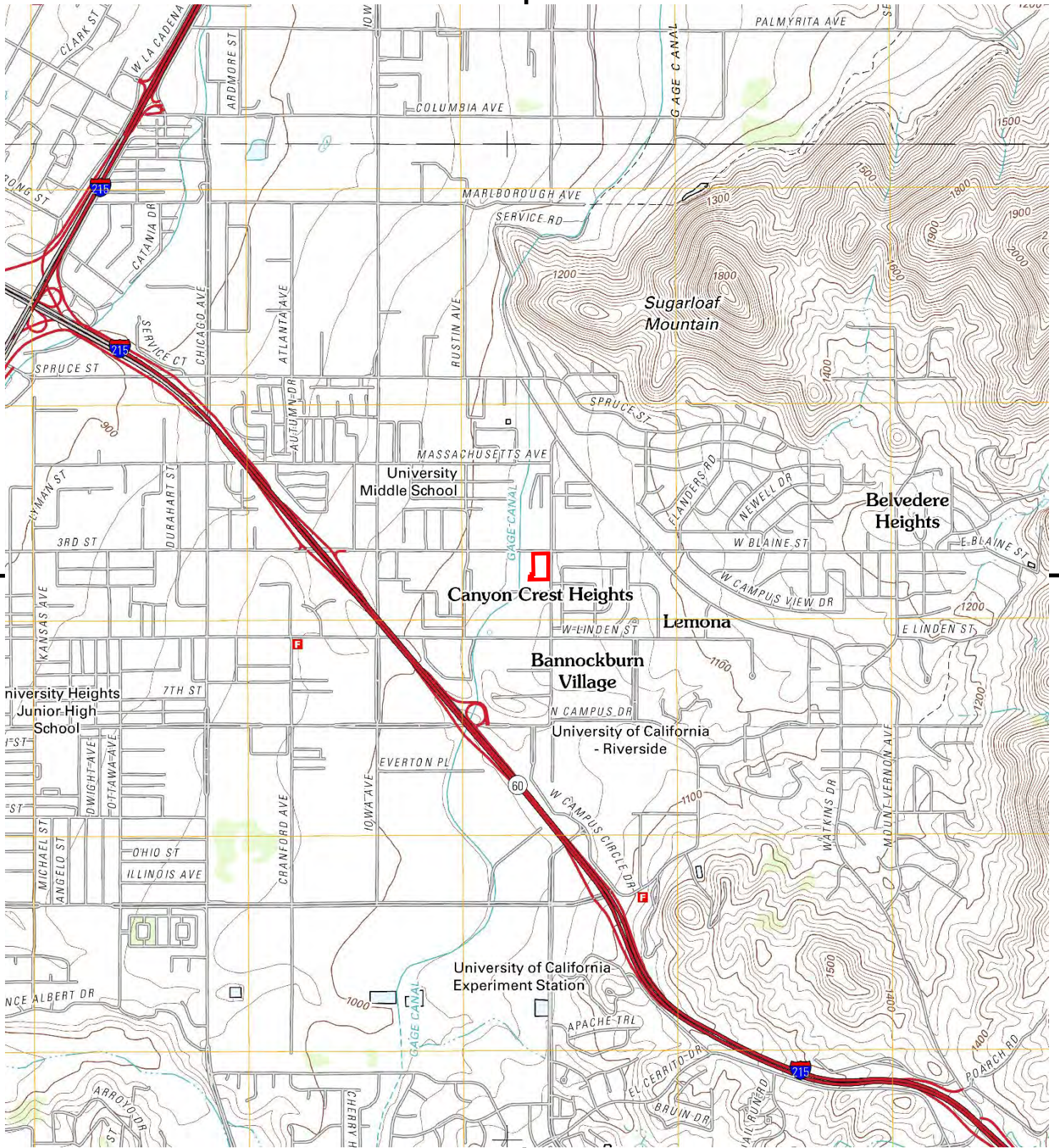
1901 Source Sheets



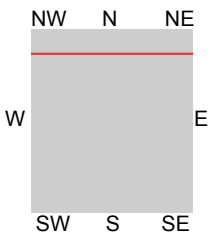
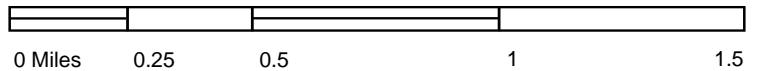
San Bernardino
1901
15-minute, 62500



Riverside
1901
15-minute, 62500



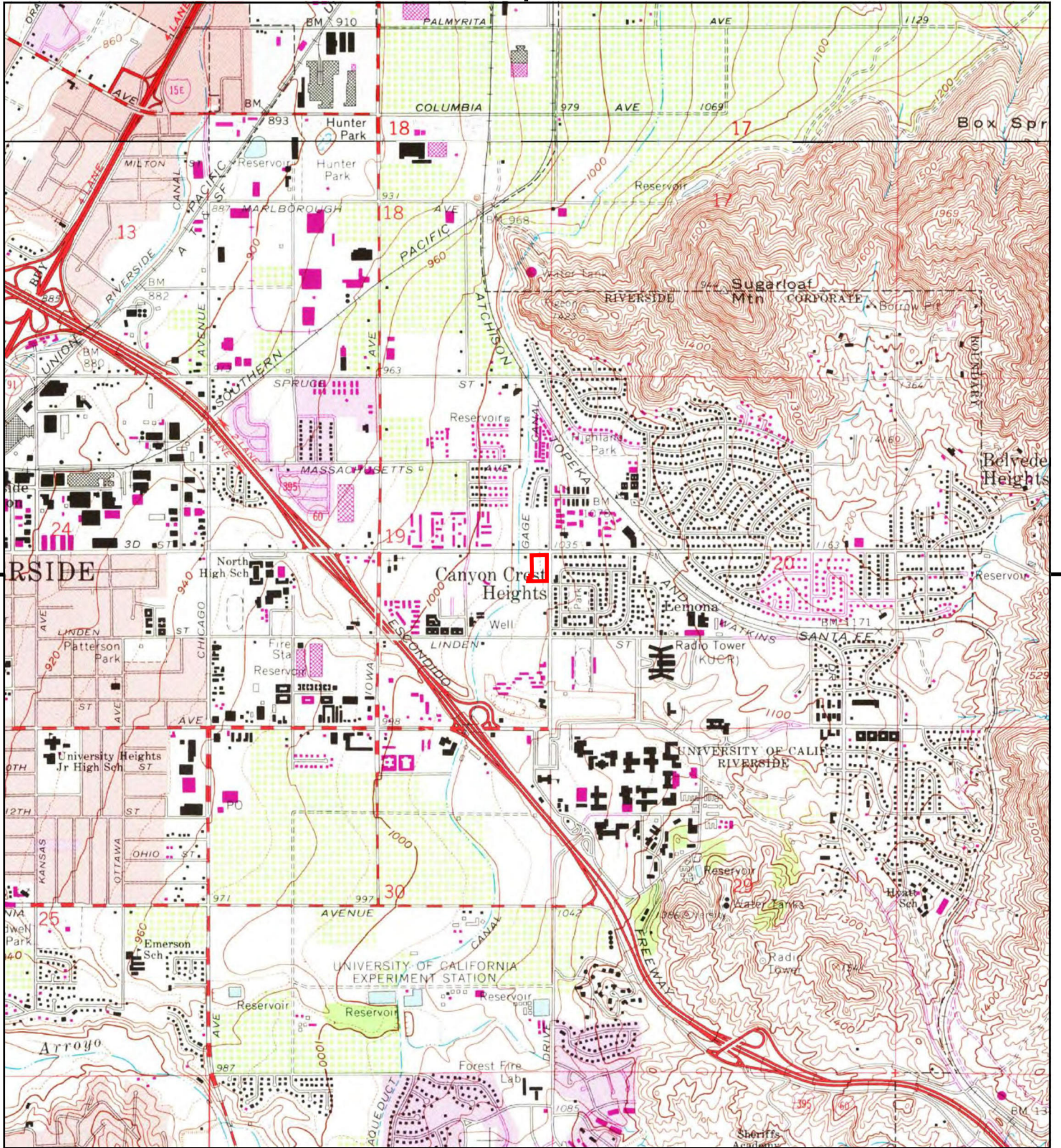
This report includes information from the following map sheet(s).



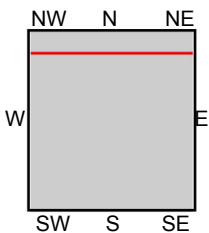
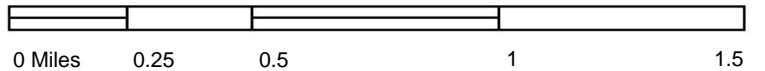
TP, Riverside East, 2012, 7.5-minute
 N, San Bernardino South, 2012, 7.5-minute

SITE NAME: STEM Academy
ADDRESS: Blaine St/Canyon Crest Dr
 Riverside, CA 92507
CLIENT: PlaceWorks





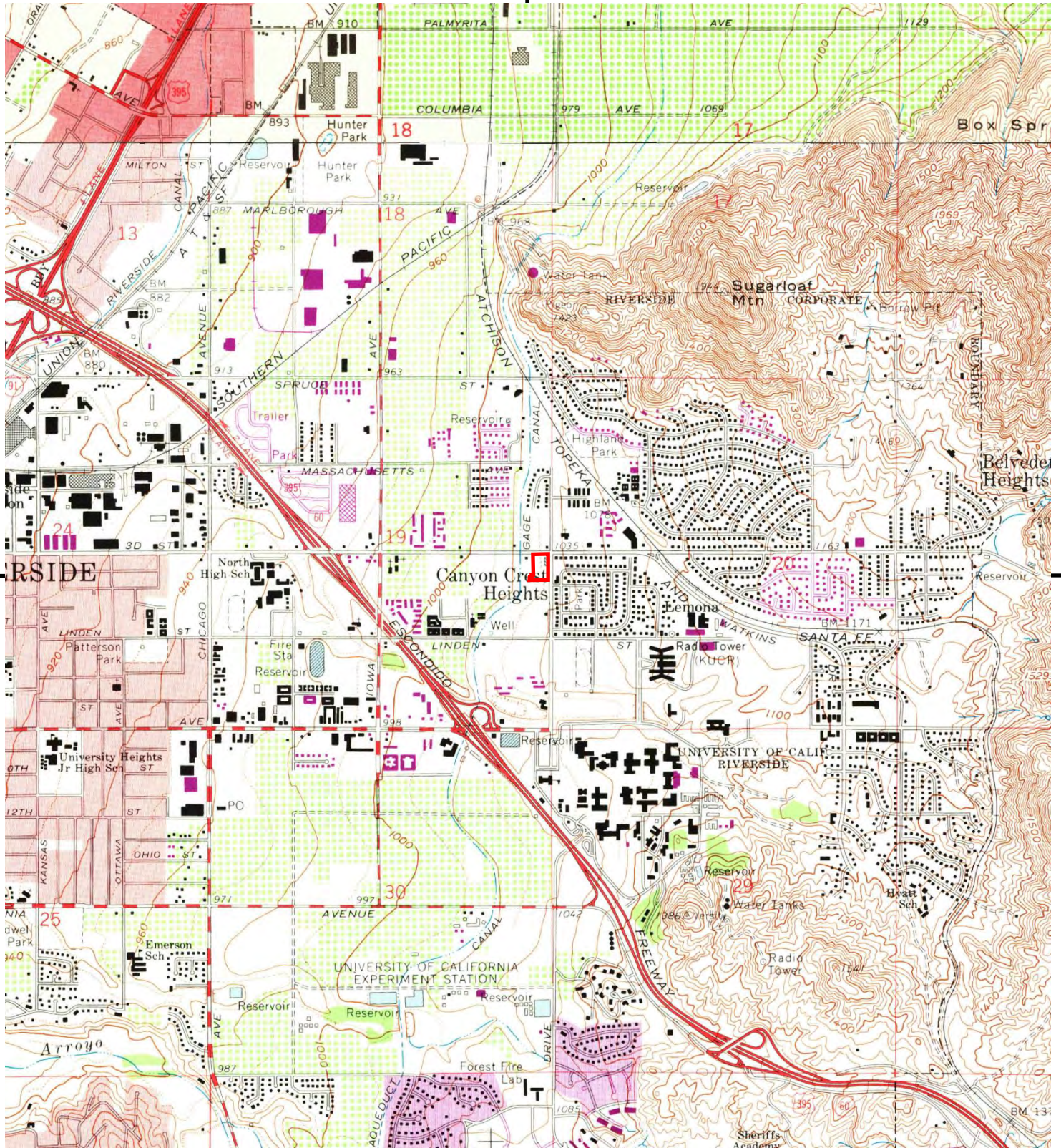
This report includes information from the following map sheet(s).



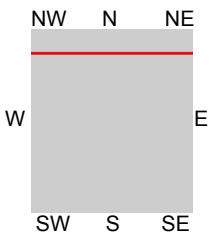
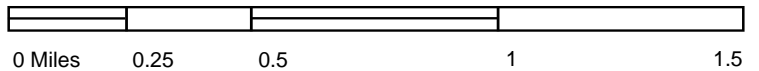
TP, Riverside East, 1980, 7.5-minute
 N, San Bernardino South, 1980, 7.5-minute

SITE NAME: STEM Academy
ADDRESS: Blaine St/Canyon Crest Dr
 Riverside, CA 92507
CLIENT: PlaceWorks





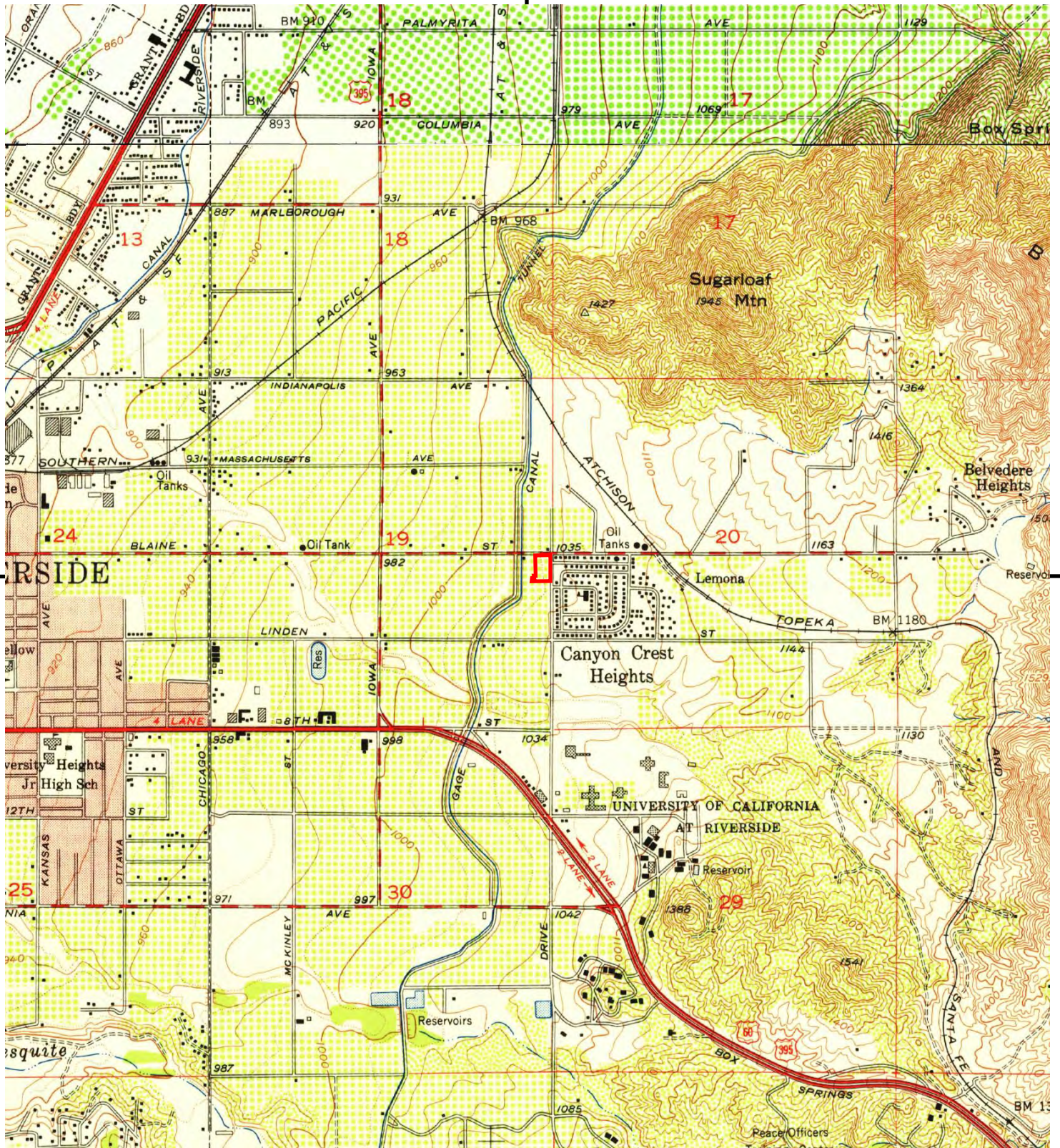
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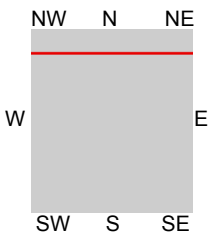
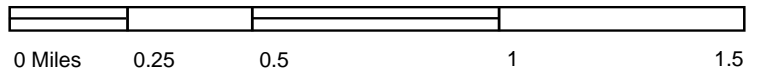
TP, Riverside East, 1967, 7.5-minute
 N, San Bernardino South, 1967, 7.5-minute

SITE NAME: STEM Academy
ADDRESS: Blaine St/Canyon Crest Dr
 Riverside, CA 92507
CLIENT: PlaceWorks





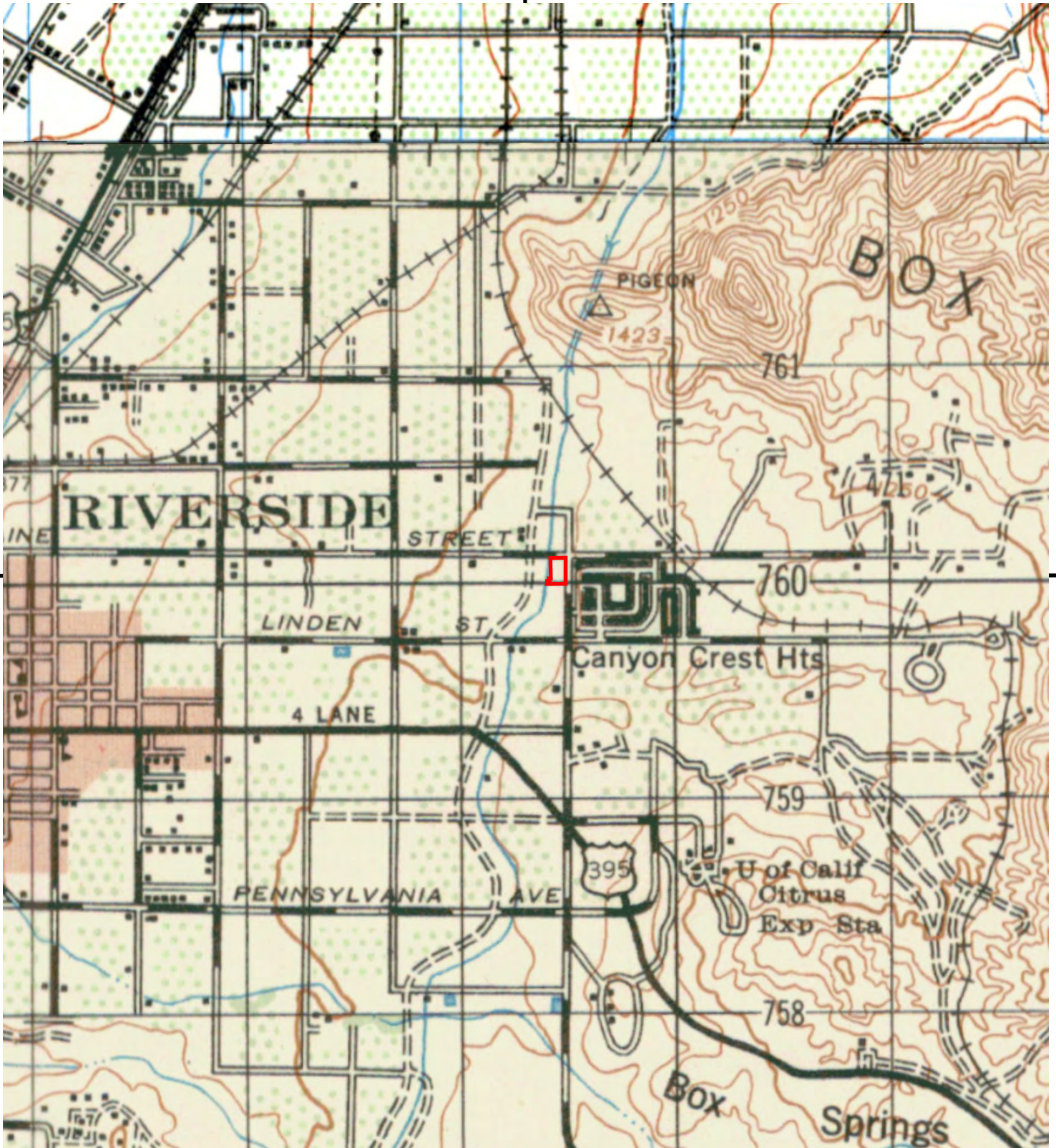
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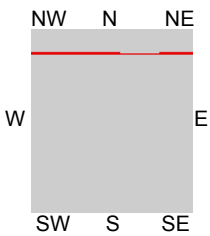
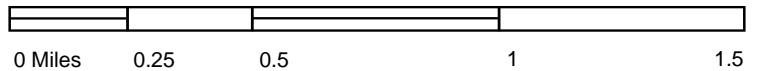
TP, Riverside East, 1953, 7.5-minute
N, San Bernardino South, 1954, 7.5-minute

SITE NAME: STEM Academy
ADDRESS: Blaine St/Canyon Crest Dr
Riverside, CA 92507
CLIENT: PlaceWorks





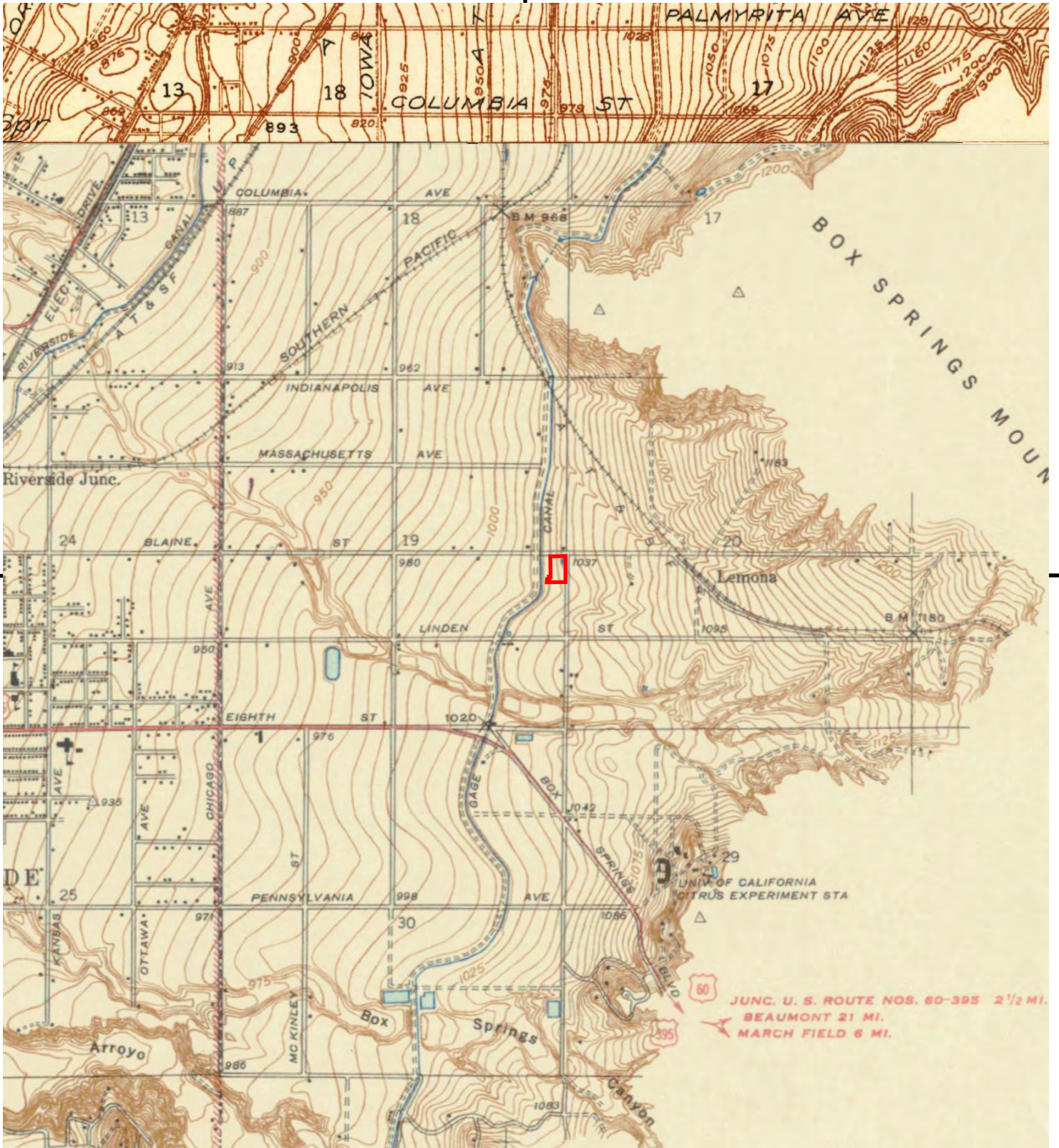
This report includes information from the following map sheet(s).



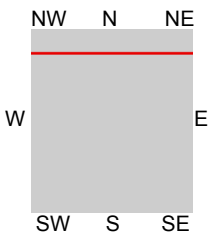
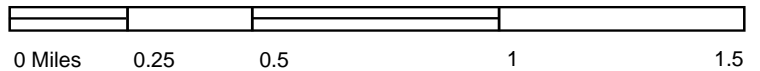
TP, RIVERSIDE, 1947, 15-minute
N, SAN BERNARDINO, 1942, 15-minute

SITE NAME: STEM Academy
ADDRESS: Blaine St/Canyon Crest Dr
Riverside, CA 92507
CLIENT: PlaceWorks





This report includes information from the following map sheet(s).



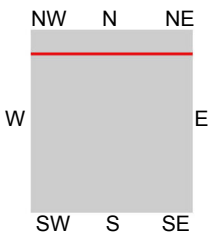
TP, RIVERSIDE VICINITY, 1942, 7.5-minute
N, Colton, 1938, 7.5-minute

SITE NAME: STEM Academy
ADDRESS: Blaine St/Canyon Crest Dr
Riverside, CA 92507
CLIENT: PlaceWorks





This report includes information from the following map sheet(s).



TP, Riverside, 1901, 15-minute
N, San Bernardino, 1901, 15-minute

SITE NAME: STEM Academy
ADDRESS: Blaine St/Canyon Crest Dr
Riverside, CA 92507
CLIENT: PlaceWorks



Appendix

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Appendix C. Environmental Database Search Report

Appendix

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STEM Education Center

900 University Ave
Riverside, CA 92507

Inquiry Number: 7107721.2s
September 06, 2022

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

900 UNIVERSITY AVE
RIVERSIDE, CA 92507

COORDINATES

Latitude (North): 33.9820920 - 33° 58' 55.53"
Longitude (West): 117.3319980 - 117° 19' 55.19"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 469333.5
UTM Y (Meters): 3760025.8
Elevation: 1031 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 12014858 RIVERSIDE EAST, CA
Version Date: 2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140603
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 900 UNIVERSITY AVE
 RIVERSIDE, CA 92507

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1		900 UNIVERSTY AVE	ERNS		TP
A2		900 UNIVERSITY V.C.R	CHMIRS		TP
A3	COLLEGE OF HUNAITIES	900 UNIVERSITY AVE	CIWQS		TP
A4	ALEXANDER I PUTMAN	900 UNIVERSITY AVE ;	PEST LIC		TP
A5	UC RIVERSIDE	ENVIRONMENTAL SAFETY	PRP		TP
A6		900 UNIVERSTY AVE	ERNS		TP
A7		900 UNIVERSITY AVE.	ERNS		TP
A8	NEXTEL CELL SITE CA7	900 UNIVERSITY AVE	FINDS		TP
A9	UNIVERSITY OF CA RIV	RIVERSIDE CAMPUS	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, RAATS		TP
A10		900 UNIVERSITY AVE	ERNS		TP
A11	T-MOBILE WEST CORPOR	900 UNIVERSITY AVE	FINDS		TP
A12		900 UNIVERSITY AVE,	CHMIRS		TP
A13	UCR MAIN CAMPUS	900 UNIVERSITY AVE	ICIS, FINDS, ECHO		TP
A14	UNIV CAL, RIVERSIDE	3401 WATKINS DR	LUST, CERS HAZ WASTE, SWEEPS UST, CERS TANKS, CA...		TP
A15	T-MOBILE WEST, LLC I	900 UNIVERSITY AVE	CHMIRS, CERS		TP
A16	STUDENT HEALTH & CC	900 UNIVERSITY AVENU	CHMIRS, NPDES, CIWQS		TP
A17		900 UNIVERSTY AVE	CHMIRS		TP
A18	VERIZON WIRELESS: BI	900 UNIVERSITY AVE	FINDS		TP
A19	UNIVERSITY OF CALIFO		PRP		TP
A20		900 UNIVERSITY AVE	ERNS		TP
A21	UC RIVERSIDE GENOMIC	900 UNIVERSITY AVE S	CIWQS		TP
A22	THE HABIT BURGER GRI	900 UNIVERSITY AVE	HAZNET, NPDES, CERS, HWTS		TP
A23		900 UNIVERSITY AVE	CHMIRS		TP
A24	UCR	900 UNIVERSITY AVE	FINDS		TP
A25		900 UNIVERSITY AVE.	ERNS		TP
A26	UCR PARKING STRUCTUR	900 UNIVERSITY AVENU	CIWQS		TP
A27	UCR STUDENT SUCCESS	900 UNIVERSITY AVENU	NPDES, CIWQS		TP
A28	WEST CAMPUS SOLAR FA	900 UNIVERSITY AVENU	CIWQS		TP
A29	HIGHLANDER HALL DEMO	900 UNIVERSITY AVENU	CIWQS		TP
A30	STUDENT RECREATION C	900 UNIVERSITY AVENU	ENVIROSTOR, CHMIRS, HWP, NPDES, CIWQS		TP
A31		900 UNIVERSITY AVE,	CHMIRS		TP
B32	ALTA-DENA DRIVE IN #	811 W BLAINE ST	HIST UST	Higher	605, 0.115, ENE
B33	ALTA-DENA DRIVE IN 5	811 BLAINE	LUST, HIST UST, HIST CORTESE, CERS	Higher	605, 0.115, ENE
B34	E-Z SERVE #070135	811 BLAINE ST	LUST, Cortese	Higher	605, 0.115, ENE
35	UNIVERSITY OF CALIFO	3500 CANYON CREST DR	RCRA NonGen / NLR	Higher	663, 0.126, SSE
B36	QUIXTOP JR MARKET	783 W BLAINE ST	UST, SWEEPS UST	Higher	812, 0.154, ENE
B37	QUIXTOP JR MARKET	783 W BLAINE ST	CA FID UST	Higher	812, 0.154, ENE
38	HENRY LAM	3063 ELGIN DR	RCRA NonGen / NLR	Lower	848, 0.161, North
C39	LINDEN BOOSTER STATI	1045 LINDEN ST	RCRA NonGen / NLR	Lower	885, 0.168, SW

MAPPED SITES SUMMARY

Target Property Address:
 900 UNIVERSITY AVE
 RIVERSIDE, CA 92507

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	CHRIS HACKETT	860 PRESCOTT WAY	RCRA NonGen / NLR	Higher	906, 0.172, NNE
D41	KRISTY KEERS	1060 ATHENA COURT	RCRA NonGen / NLR	Lower	950, 0.180, NW
D42	KUSH J GULMATICO	1070 ATHENA CT	RCRA NonGen / NLR	Lower	996, 0.189, NW
C43	RIVERSIDE CITY RADIO	BOX SPRINGS MOUNTAIN	UST	Lower	1065, 0.202, SW
E44	HIGHLANDER PARK PART	3131 WATKINS DRIVE	RCRA NonGen / NLR	Higher	1179, 0.223, NE
E45	HIGHLANDER PARK APAR	3131 WATKINS DRIVE	RCRA NonGen / NLR	Higher	1179, 0.223, NE
46	UNIV 4 HR CLEANERS	765 BLAINE ST	DRYCLEANERS	Higher	1215, 0.230, ENE
47	CHEVRON #9-8260	1011 UNIVERSITY AVE	LUST, Cortese, HIST CORTESE, CERS	Higher	1955, 0.370, SSW
48	GROVE 186	COLE ST	LUST, CERS	Lower	2198, 0.416, WSW
F49	MOBIL #18-402	1147 UNIVERSITY AVE	LUST, SWEEPS UST, CA FID UST, HIST CORTESE	Lower	2249, 0.426, SSW
F50	MOBIL #18-402	1147 UNIVERSITY AVE	LUST, CERS HAZ WASTE, CERS TANKS, CHMIRS, Cortese,...	Lower	2249, 0.426, SSW
G51	TEXACO SERVICE STATI	1300 BLAINE ST	RCRA-SQG, LUST, FINDS, ECHO	Lower	2317, 0.439, West
G52	EXXON SERVICE STATIO	1300 BLAINE ST	LUST, Cortese, CERS	Lower	2317, 0.439, West
G53	EXXON SERVICE STATIO	1300 BLAINE ST	LUST, Cortese	Lower	2317, 0.439, West
G54	SHELL	3261 IOWA	LUST, CERS HAZ WASTE, HIST UST, CERS TANKS,...	Lower	2318, 0.439, West
G55	BLAINE SHELL	3261 IOWA AVE	LUST	Lower	2318, 0.439, West
G56	SHELL IOWA AVENUE	3261 IOWA AVENUE	LUST	Lower	2318, 0.439, West
F57	UNIVERSITY OF CALIFO	1160 UNIVERSITY AVEN	LUST, Cortese, CERS	Lower	2488, 0.471, SSW
H58	TEXACO SERVICE STATI	1221 UNIVERSITY AVE	LUST, SWEEPS UST, CA FID UST, HIST CORTESE	Lower	2521, 0.477, SW
H59	TEXACO	1221 UNIVERSITY AVE	LUST, Cortese, CERS	Lower	2521, 0.477, SW
60	VALERION CORPORATION	2280 IOWA	ENVIROSTOR, HIST CORTESE	Lower	3376, 0.639, NW
61	ARCO STATION #1841	1505 THIRD	Notify 65	Lower	3488, 0.661, West
62	THERMOCLAD COMPANY	1541 7TH ST	ENVIROSTOR	Lower	4012, 0.760, WSW
63	RIVERSIDE USD-WATKIN	SW CORNER OF WATKINS	ENVIROSTOR, SCH	Higher	4045, 0.766, ESE
64	CALIFORNIA SPRAY CHE	3530 CHICAGO AV	ENVIROSTOR	Lower	4815, 0.912, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
900 UNIVERSTY AVE 900 UNIVERSTY AVE RIVERSIDE, CA	ERNS NRC Report #: 609826 Incident Date Time: 2002-06-10 09:00:00	N/A
900 UNIVERSITY V.C.R 900 UNIVERSITY V.C.R RIVERSIDE, CA 92507	CHMIRS OES Incident Number: 012393 Date Completed: 13-AUG-90	N/A
COLLEGE OF HUNAITIES 900 UNIVERSITY AVE RIVERSIDE, CA 92507	CIWQS	N/A
ALEXANDER I PUTMAN 900 UNIVERSITY AVE ; RIVERSIDE, CA 92521	PEST LIC	N/A
UC RIVERSIDE ENVIRONMENTAL SAFETY RIVERSIDE, CA 92521	PRP	N/A
900 UNIVERSTY AVE 900 UNIVERSTY AVE RIVERSIDE, CA	ERNS NRC Report #: 594177 Incident Date Time: 1999-07-06 12:00:00	N/A
900 UNIVERSITY AVE. 900 UNIVERSITY AVE. RIVERSIDE, CA	ERNS NRC Report #: 779123 Incident Date Time: 2005-11-10 09:15:00	N/A
NEXTEL CELL SITE CA7 900 UNIVERSITY AVE RIVERSIDE, CA 92521	FINDS Registry ID:: 110066093300	N/A
UNIVERSITY OF CA RIV RIVERSIDE CAMPUS RIVERSIDE, CA 92521	SEMS-ARCHIVE Site ID: 0901566	CAD073134777

EXECUTIVE SUMMARY

	EPA Id: CAD073134777 CORRACTS EPA ID:: CAD073134777 RCRA-TSDF EPA ID:: CAD073134777 RCRA-LQG EPA ID:: CAD073134777 RAATS Status: 02 Facility ID: CAD073134777	
900 UNIVERSITY AVE 900 UNIVERSITY AVE RIVERSIDE, CA 92521	ERNS NRC Report #: 420547 Incident Date Time: 1998-01-09 16:00:00	N/A
T-MOBILE WEST CORPOR 900 UNIVERSITY AVE RIVERSIDE, CA 92521	FINDS Registry ID:: 110066667379	N/A
900 UNIVERSITY AVE, 900 UNIVERSITY AVE, RIVERSIDE, CA 92521	CHMIRS OES Incident Number: 20-6373	N/A
UCR MAIN CAMPUS 900 UNIVERSITY AVE RIVERSIDE, CA 92521	ICIS FRS ID:: 110000609761 FINDS Registry ID:: 110000609761 ECHO Registry ID: 110000609761	N/A
UNIV CAL, RIVERSIDE 3401 WATKINS DR RIVERSIDE, CA 92521	LUST Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Pollution Characterization Global ID: T0606500425 CERS HAZ WASTE SWEEPS UST Status: A Tank Status: A Comp Number: 19667 Comp Number: 12224 CERS TANKS CA FID UST Facility Id: 33006882 Status: A Cortese	N/A

EXECUTIVE SUMMARY

Cleanup Status: COMPLETED - CASE CLOSED

DRYCLEANERS

Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/20/2022

EMI

Facility Id: 49387

HIST CORTESE

Reg Id: 083303140T

Reg Id: 083303638T

Reg Id: 083302681T

NPDES

Facility Status: Active

CIWQS

CERS

T-MOBILE WEST, LLC I
900 UNIVERSITY AVE
RIVERSIDE, CA 92521

CHMIRS

N/A

OES Incident Number: 5-6510

OES Incident Number: 21-6460

OES Incident Number: 2-5953

OES Incident Number: 009962

OES Incident Number: 8-0260

Date Completed: 03-FEB-90

CERS

STUDENT HEALTH & CC
900 UNIVERSITY AVENU
RIVERSIDE, CA 92521

CHMIRS

N/A

OES Incident Number: 15-3788

NPDES

Facility Status: Active

CIWQS

900 UNIVERSTY AVE
900 UNIVERSTY AVE
RIVERSIDE, CA

CHMIRS

N/A

OES Incident Number: 2-3179

VERIZON WIRELESS: BI
900 UNIVERSITY AVE
RIVERSIDE, CA 92521

FINDS

N/A

Registry ID:: 110065985125

UNIVERSITY OF CALIFO

PRP

N/A

900 UNIVERSITY AVE
900 UNIVERSITY AVE
RIVERSIDE, CA 92507

ERNS

N/A

NRC Report #: 1321942

Incident Date Time: 1/1/2014 0:00

UC RIVERSIDE GENOMIC
900 UNIVERSITY AVE S
RIVERSIDE, CA 92521

CIWQS

N/A

EXECUTIVE SUMMARY

<p>THE HABIT BURGER GRI 900 UNIVERSITY AVE RIVERSIDE, CA 92521</p>	<p>HAZNET GEPaid: CAD073134777</p> <p>NPDES Facility Status: Terminated</p> <p>CERS HWTS</p>	<p>N/A</p>
<p>900 UNIVERSITY AVE 900 UNIVERSITY AVE RIVERSIDE, CA 92521</p>	<p>CHMIRS OES Incident Number: 16-0125</p>	<p>N/A</p>
<p>UCR 900 UNIVERSITY AVE RIVERSIDE, CA 92507</p>	<p>FINDS Registry ID:: 110066235201</p>	<p>N/A</p>
<p>900 UNIVERSITY AVE. 900 UNIVERSITY AVE. RIVERSIDE, CA 92521</p>	<p>ERNS NRC Report #: 1121706 Incident Date Time: 2015-07-02 09:30:00</p>	<p>N/A</p>
<p>UCR PARKING STRUCTUR 900 UNIVERSITY AVENU RIVERSIDE, CA CA</p>	<p>CIWQS</p>	<p>N/A</p>
<p>UCR STUDENT SUCCESS 900 UNIVERSITY AVENU RIVERSIDE, CA 92521</p>	<p>NPDES Facility Status: Terminated</p> <p>CIWQS</p>	<p>N/A</p>
<p>WEST CAMPUS SOLAR FA 900 UNIVERSITY AVENU RIVERSIDE, CA 92507</p>	<p>CIWQS</p>	<p>N/A</p>
<p>HIGHLANDER HALL DEMO 900 UNIVERSITY AVENU RIVERSIDE, CA</p>	<p>CIWQS</p>	<p>N/A</p>
<p>STUDENT RECREATION C 900 UNIVERSITY AVENU RIVERSIDE, CA 92507</p>	<p>ENVIROSTOR Facility Id: 80001663 Status: Refer: SMBRP</p> <p>CHMIRS OES Incident Number: 099262 Date Completed: 11-JUN-90</p> <p>HWP EPA ID: CAD073134777</p>	<p>N/A</p>

EXECUTIVE SUMMARY

Cleanup Status: CLOSED

NPDES

Facility Status: Terminated

CIWQS

900 UNIVERSITY AVE,
900 UNIVERSITY AVE,
RIVERSIDE, CA

CHMIRS

OES Incident Number: 2-0891

N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal RCRA generators

RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE..... State Response Sites

EXECUTIVE SUMMARY

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Properties

Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites..... Historical Calsites Database
SCH..... School Property Evaluation Program
CDL..... Clandestine Drug Labs
Toxic Pits..... Toxic Pits Cleanup Act Sites
US CDL..... National Clandestine Laboratory Register
AQUEOUS FOAM..... Former Fire Training Facility Assessments Listing
PFAS..... PFAS Contamination Site Location Listing

Local Land Records

LIENS..... Environmental Liens Listing

EXECUTIVE SUMMARY

LIENS 2..... CERCLA Lien Information
DEED..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
LDS..... Land Disposal Sites Listing
MCS..... Military Cleanup Sites Listing
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
PADS..... PCB Activity Database System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM..... EPA Fuels Program Registered Listing
CA BOND EXP. PLAN..... Bond Expenditure Plan
CUPA Listings..... CUPA Resources List
ENF..... Enforcement Action Listing
Financial Assurance..... Financial Assurance Information Listing
ICE..... ICE
HWT..... Registered Hazardous Waste Transporter Database
MINES..... Mines Site Location Listing
MWMP..... Medical Waste Management Program Listing
PROC..... Certified Processors Database
UIC..... UIC Listing
UIC GEO..... UIC GEO (GEOTRACKER)

EXECUTIVE SUMMARY

WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
MILITARY PRIV SITES.....	MILITARY PRIV SITES (GEOTRACKER)
PROJECT.....	PROJECT (GEOTRACKER)
WDR.....	Waste Discharge Requirements Listing
NON-CASE INFO.....	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS.....	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS.....	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT.....	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ.....	Well Stimulation Project (GEOTRACKER)
MINES MRDS.....	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information

EXECUTIVE SUMMARY

that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/25/2022 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RIVERSIDE USD-WATKIN Facility Id: 60002583 Status: No Further Action	SW CORNER OF WATKINS	ESE 1/2 - 1 (0.766 mi.)	63	459
Lower Elevation	Address	Direction / Distance	Map ID	Page
VALERION CORPORATION Facility Id: 33280139 Status: Refer: Other Agency	2280 IOWA	NW 1/2 - 1 (0.639 mi.)	60	456
THERMOCLAD COMPANY Facility Id: 60000209 Status: Inactive - Needs Evaluation	1541 7TH ST	WSW 1/2 - 1 (0.760 mi.)	62	458
CALIFORNIA SPRAY CHE Facility Id: 60000214 Status: Inactive - Needs Evaluation	3530 CHICAGO AV	WSW 1/2 - 1 (0.912 mi.)	64	462

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 15 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ALTA-DENA DRIVE IN 5 Database: LUST, Date of Government Version: 05/23/2022 Global Id: T0606500022 Status: Completed - Case Closed	811 BLAINE	ENE 0 - 1/8 (0.115 mi.)	B33	348
E-Z SERVE #070135 Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0606500022	811 BLAINE ST	ENE 0 - 1/8 (0.115 mi.)	B34	350
CHEVRON #9-8260 Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: RIVERSIDE CO. LUST, Date of Government Version: 03/31/2022 Database: LUST, Date of Government Version: 05/23/2022 Global Id: T0606500089 Facility Status: 9 Status: Completed - Case Closed	1011 UNIVERSITY AVE	SSW 1/4 - 1/2 (0.370 mi.)	47	374

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Facility Status: Case Closed
 Facility Id: 91776
 Global ID: T0606500089

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GROVE 186 Database: LUST, Date of Government Version: 05/23/2022 Global Id: T0606500130 Status: Completed - Case Closed	COLE ST	WSW 1/4 - 1/2 (0.416 mi.)	48	378
MOBIL #18-402 Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Pollution Characterization Global ID: T0606500586	1147 UNIVERSITY AVE	SSW 1/4 - 1/2 (0.426 mi.)	F49	380
MOBIL #18-402 Database: RIVERSIDE CO. LUST, Date of Government Version: 03/31/2022 Database: LUST, Date of Government Version: 05/23/2022 Global Id: T0606500586 Facility Status: 9 Status: Completed - Case Closed Facility Id: 9914834	1147 UNIVERSITY AVE	SSW 1/4 - 1/2 (0.426 mi.)	F50	383
TEXACO SERVICE STATI Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Leak being confirmed Global ID: T0606599251	1300 BLAINE ST	W 1/4 - 1/2 (0.439 mi.)	G51	410
EXXON SERVICE STATIO Database: RIVERSIDE CO. LUST, Date of Government Version: 03/31/2022 Database: LUST, Date of Government Version: 05/23/2022 Global Id: T0606500065 Global Id: T0606599251 Facility Status: 9 Status: Completed - Case Closed Facility Id: 200218657	1300 BLAINE ST	W 1/4 - 1/2 (0.439 mi.)	G52	415
EXXON SERVICE STATIO Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0606500065	1300 BLAINE ST	W 1/4 - 1/2 (0.439 mi.)	G53	419
SHELL Database: RIVERSIDE CO. LUST, Date of Government Version: 03/31/2022 Database: LUST, Date of Government Version: 05/23/2022 Global Id: T0606575445 Global Id: T0606500371 Facility Status: 9 Status: Completed - Case Closed Facility Id: 94345 Facility Id: 200421108	3261 IOWA	W 1/4 - 1/2 (0.439 mi.)	G54	421
BLAINE SHELL Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0606500371	3261 IOWA AVE	W 1/4 - 1/2 (0.439 mi.)	G55	445
SHELL IOWA AVENUE Database: LUST REG 8, Date of Government Version: 02/14/2005	3261 IOWA AVENUE	W 1/4 - 1/2 (0.439 mi.)	G56	446

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Facility Status: Leak being confirmed
Global ID: T0606575445

UNIVERSITY OF CALIFO **1160 UNIVERSITY AVEN** **SSW 1/4 - 1/2 (0.471 mi.)** **F57** **447**

Database: LUST, Date of Government Version: 05/23/2022

Global Id: T10000011461

Status: Completed - Case Closed

TEXACO SERVICE STATI **1221 UNIVERSITY AVE** **SW 1/4 - 1/2 (0.477 mi.)** **H58** **449**

Database: LUST REG 8, Date of Government Version: 02/14/2005

Facility Status: Case Closed

Global ID: T0606500471

TEXACO **1221 UNIVERSITY AVE** **SW 1/4 - 1/2 (0.477 mi.)** **H59** **452**

Database: RIVERSIDE CO. LUST, Date of Government Version: 03/31/2022

Database: LUST, Date of Government Version: 05/23/2022

Global Id: T0606500471

Facility Status: 9

Facility Status: 0

Status: Completed - Case Closed

Facility Id: 960698

Facility Id: 200117614

Facility Id: 200218406

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
QUIXTOP JR MARKET	783 W BLAINE ST	ENE 1/8 - 1/4 (0.154 mi.)	B36	354
Database: UST, Date of Government Version: 06/06/2022 Facility Id: 613				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RIVERSIDE CITY RADIO	BOX SPRINGS MOUNTAIN	SW 1/8 - 1/4 (0.202 mi.)	C43	369
Database: UST, Date of Government Version: 06/06/2022 Facility Id: 639				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank

EXECUTIVE SUMMARY

listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
QUIXTOP JR MARKET Status: A Tank Status: A Comp Number: 49307	783 W BLAINE ST	ENE 1/8 - 1/4 (0.154 mi.)	B36	354

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ALTA-DENA DRIVE IN # Facility Id: 00000011198	811 W BLAINE ST	ENE 0 - 1/8 (0.115 mi.)	B32	347
ALTA-DENA DRIVE IN 5	811 BLAINE	ENE 0 - 1/8 (0.115 mi.)	B33	348

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
QUIXTOP JR MARKET Facility Id: 33007068 Status: A	783 W BLAINE ST	ENE 1/8 - 1/4 (0.154 mi.)	B37	356

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/20/2022 has revealed that there are 8 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNIVERSITY OF CALIFO EPA ID:: CAC003147252	3500 CANYON CREST DR	SSE 1/8 - 1/4 (0.126 mi.)	35	352
CHRIS HACKETT	860 PRESCOTT WAY	NNE 1/8 - 1/4 (0.172 mi.)	40	361

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EPA ID:: CAC003074435				
HIGHLANDER PARK PART EPA ID:: CAC003023851	3131 WATKINS DRIVE	NE 1/8 - 1/4 (0.223 mi.)	E44	369
HIGHLANDER PARK APAR EPA ID:: CAC003081447	3131 WATKINS DRIVE	NE 1/8 - 1/4 (0.223 mi.)	E45	371

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HENRY LAM EPA ID:: CAC003062736	3063 ELGIN DR	N 1/8 - 1/4 (0.161 mi.)	38	356
LINDEN BOOSTER STATI EPA ID:: CAC003042187	1045 LINDEN ST	SW 1/8 - 1/4 (0.168 mi.)	C39	359
KRISTY KEERS EPA ID:: CAC003052397	1060 ATHENA COURT	NW 1/8 - 1/4 (0.180 mi.)	D41	364
KUSH J GULMATICO EPA ID:: CAC002972060	1070 ATHENA CT	NW 1/8 - 1/4 (0.189 mi.)	D42	366

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/21/2022 has revealed that there are 8 Cortese sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
E-Z SERVE #070135 Cleanup Status: COMPLETED - CASE CLOSED	811 BLAINE ST	ENE 0 - 1/8 (0.115 mi.)	B34	350
CHEVRON #9-8260 Cleanup Status: COMPLETED - CASE CLOSED	1011 UNIVERSITY AVE	SSW 1/4 - 1/2 (0.370 mi.)	47	374

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MOBIL #18-402 Cleanup Status: COMPLETED - CASE CLOSED	1147 UNIVERSITY AVE	SSW 1/4 - 1/2 (0.426 mi.)	F50	383
EXXON SERVICE STATIO Cleanup Status: COMPLETED - CASE CLOSED	1300 BLAINE ST	W 1/4 - 1/2 (0.439 mi.)	G52	415
EXXON SERVICE STATIO Cleanup Status: COMPLETED - CASE CLOSED	1300 BLAINE ST	W 1/4 - 1/2 (0.439 mi.)	G53	419
SHELL Cleanup Status: COMPLETED - CASE CLOSED	3261 IOWA	W 1/4 - 1/2 (0.439 mi.)	G54	421
UNIVERSITY OF CALIFO Cleanup Status: COMPLETED - CASE CLOSED	1160 UNIVERSITY AVEN	SSW 1/4 - 1/2 (0.471 mi.)	F57	447
TEXACO Cleanup Status: COMPLETED - CASE CLOSED	1221 UNIVERSITY AVE	SW 1/4 - 1/2 (0.477 mi.)	H59	452

EXECUTIVE SUMMARY

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNIV 4 HR CLEANERS Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/20/2022	765 BLAINE ST	ENE 1/8 - 1/4 (0.230 mi.)	46	374

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 5 HIST CORTESE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ALTA-DENA DRIVE IN 5 Reg Id: 083300132T	811 BLAINE	ENE 0 - 1/8 (0.115 mi.)	B33	348
CHEVRON #9-8260 Reg Id: 083300839T	1011 UNIVERSITY AVE	SSW 1/4 - 1/2 (0.370 mi.)	47	374
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MOBIL #18-402 Reg Id: 083303453T	1147 UNIVERSITY AVE	SSW 1/4 - 1/2 (0.426 mi.)	F49	380
SHELL Reg Id: 083302449T	3261 IOWA	W 1/4 - 1/2 (0.439 mi.)	G54	421
TEXACO SERVICE STATI Reg Id: 083302877T	1221 UNIVERSITY AVE	SW 1/4 - 1/2 (0.477 mi.)	H58	449

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 06/10/2022 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

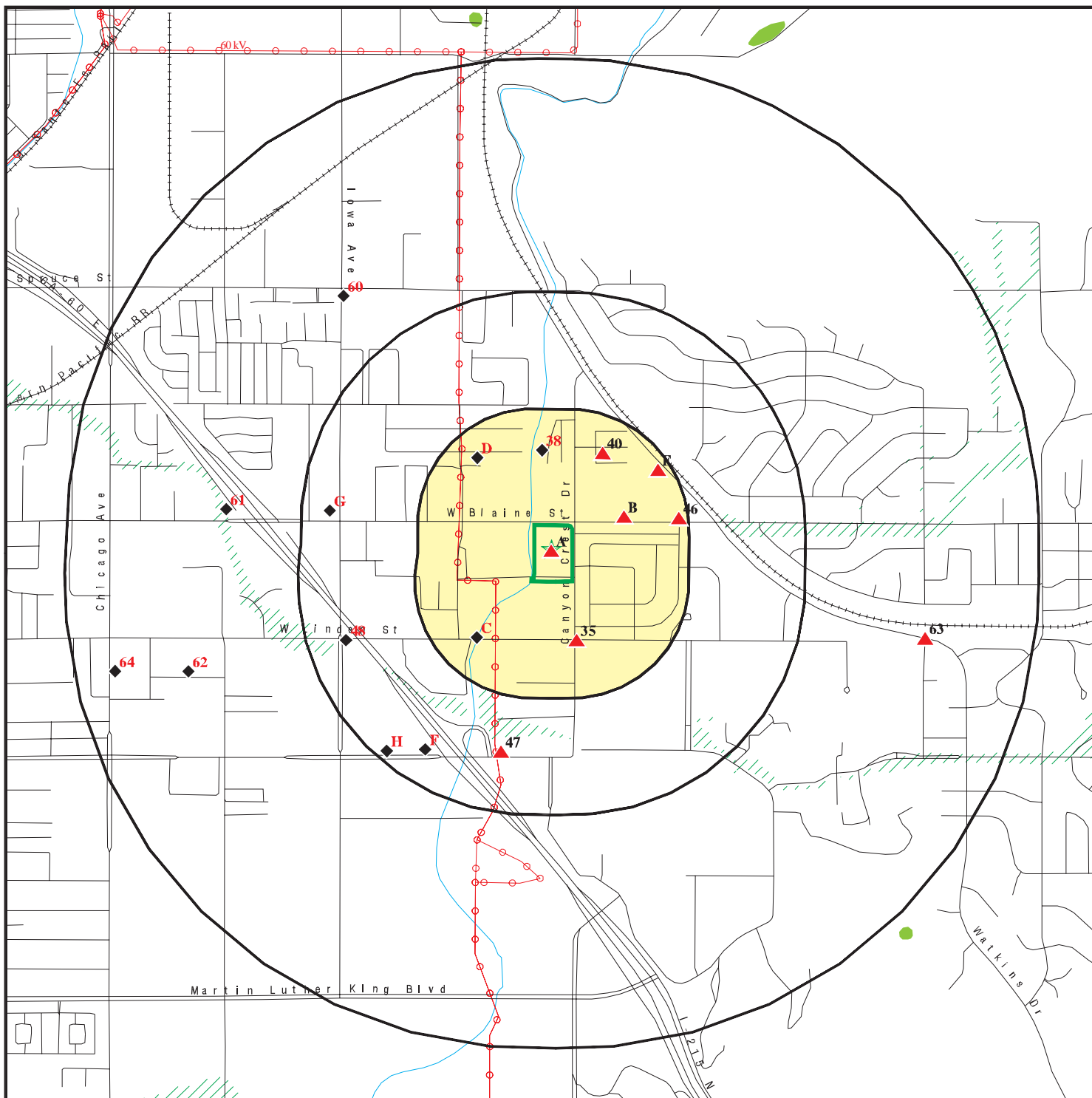
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ARCO STATION #1841	1505 THIRD	W 1/2 - 1 (0.661 mi.)	61	457

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

<u>Site Name</u>	<u>Database(s)</u>
UCR - PARKING LOT 6	LUST
UCR (PESTICIDE PITS)	CPS-SLIC

OVERVIEW MAP - 7107721.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

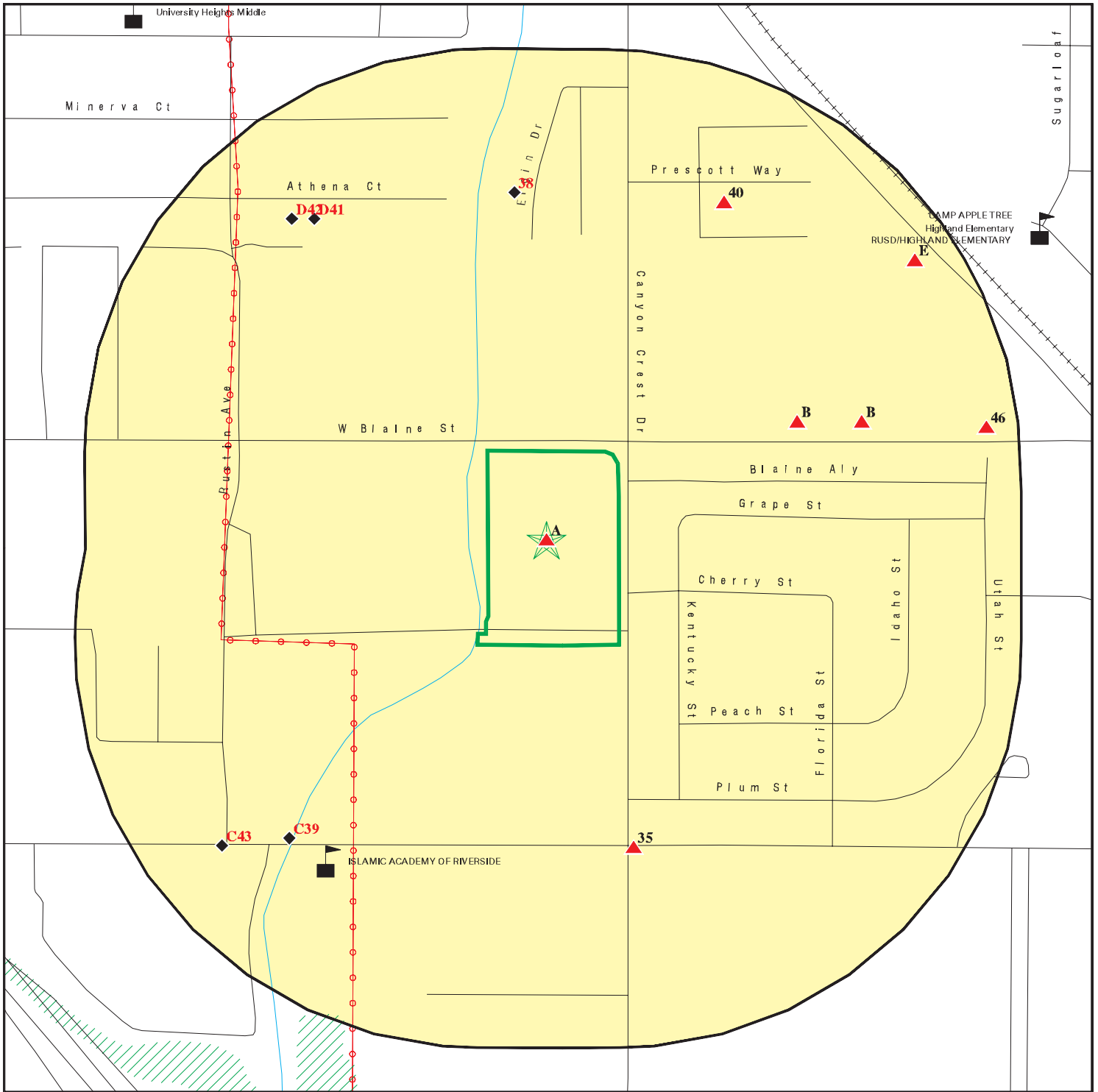
Areas of Concern








This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.






SITE NAME: STEM Education Center
 ADDRESS: 900 University Ave
 Riverside CA 92507
 LAT/LONG: 33.982092 / 117.331998

CLIENT: PlaceWorks
 CONTACT: Denise Clendening
 INQUIRY #: 7107721.2s
 DATE: September 06, 2022 1:38 pm

DETAIL MAP - 7107721.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: STEM Education Center ADDRESS: 900 University Ave Riverside CA 92507 LAT/LONG: 33.982092 / 117.331998</p>	<p>CLIENT: PlaceWorks CONTACT: Denise Clendening INQUIRY #: 7107721.2s DATE: September 06, 2022 1:39 pm</p>
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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500	1	0	0	0	NR	NR	1
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000	1	0	0	0	0	NR	1
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500	1	0	0	0	NR	NR	1
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250	1	0	0	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001	6	0	NR	NR	NR	NR	6
<i>Lists of state- and tribal (Superfund) equivalent sites</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
ENVIROSTOR	1.000	1	0	0	0	4	NR	5
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<i>Lists of state and tribal leaking storage tanks</i>								
LUST	0.500	1	2	0	13	NR	NR	16
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	2	NR	NR	NR	2
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250	1	0	0	NR	NR	NR	1
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Registered Storage Tanks</i>								
SWEEPS UST	0.250	1	0	1	NR	NR	NR	2
HIST UST	0.250		2	0	NR	NR	NR	2
CERS TANKS	0.250	1	0	0	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA FID UST	0.250	1	0	1	NR	NR	NR	2
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001	8	0	NR	NR	NR	NR	8
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	8	NR	NR	NR	8
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001	1	0	NR	NR	NR	NR	1
PRP	0.001	2	0	NR	NR	NR	NR	2
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001	1	0	NR	NR	NR	NR	1
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	5	0	NR	NR	NR	NR	5
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500	1	1	0	7	NR	NR	9
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250	1	0	1	NR	NR	NR	2
EMI	0.001	1	0	NR	NR	NR	NR	1
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	1	0	NR	NR	NR	NR	1
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500	1	1	0	4	NR	NR	6
HWP	1.000	1	0	0	0	0	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001	5	0	NR	NR	NR	NR	5
PEST LIC	0.001	1	0	NR	NR	NR	NR	1
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001	9	0	NR	NR	NR	NR	9
CERS	0.001	3	0	NR	NR	NR	NR	3
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP	1	NR	NR	NR	NR	NR	1

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals --		59	6	13	24	5	0	107
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A1
Target
Property

900 UNIVERSTY AVE
RIVERSIDE, CA

ERNS 2002609826
N/A

Site 1 of 31 in cluster A

Actual:
1031 ft.

Incident Commons:
NRC Report #: 609826
Description of Incident: THE CALLER STATED THAT A CONTAINER WAS DISCOVERED UNDERNEATH A WOOD BUILDING THAT WAS ON CONCRETE PILLARS. THERE WAS SOME SOIL SAMPLES TAKEN.
Type of Incident: FIXED
Incident Cause: UNKNOWN
Incident Date Time: 2002-06-10 09:00:00
Incident DTG: OCCURRED
Incident Location: Not reported
Loaction Address: 900 UNIVERSTY AVE
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: RIVERSIDE
Location State: CA
Location County: RIVERSIDE
Location Zip: Not reported
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Not reported

Incidents:
NRC Report #: 609826
Aircraft Type: UNKNOWN
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported
Aircraft Fuel on Board: Not reported
Aircraft Fuel on Board Units: Not reported
Aircraft Spot Number: Not reported
Aircraft Hanger: Not reported
Aircraft Runway Number: Not reported
Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: OTHER
Power Generating Facility: N
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U
Pipeline Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2002609826

DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSF Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2002609826

Signalman Testing: Not reported
Other Employee Testing: Not reported
Unknown Testing: Not reported
Passenger Handling: Not reported
Passenger Route: XXX
Passenger Delay: XXX

Incident Details:

NRC Report #: 609826
Fire Involved: N
Fire Extinguished: U
Any Evacuations: N
Number Evacuated: Not reported
Who Evacuated: Not reported
Radius of Evacuation: Not reported
Any Injuries: N
Number Injured: Not reported
Number Hospitalized: Not reported
Any Fatalities: N
Number Fatalities: Not reported
Any Damages: N
Damage Amount: Not reported
Air Corridor Closed: N
Air Corridor Desc: Not reported
Air Closure Time: Not reported
Waterway Closed: N
Waterway Desc: Not reported
Waterway Closure Time: Not reported
Road Closed: N
Road Desc: Not reported
Road Closure Time: Not reported
Closure Direction: Not reported
Major Artery: N
Track Closed: N
Track Desc: Not reported
Track Closure Time: Not reported
Media Interest: NONE
Medium Desc: LAND
Additional Medium Info: GROUND / SOIL
Body of Water: Not reported
Tributary of: Not reported
Release Secured: U
Estimated Duration of Release: Not reported
Release rate: Not reported
Desc Remedial Action: FENCED IN THE PROPERTY AND STOPPED THE PROJECT
State Agency on Scene: Not reported
State Agency Report Number: Not reported
Other Agency Notified: Not reported
Weather Conditions: Not reported
Air Temperature: Not reported
Wind Speed: Not reported
Wind Direction: Not reported
Water Supply Contaminated: U
Sheen Size: Not reported
Sheen Color: Not reported
Direction of Sheen Travel: Not reported
Sheen Odor Description: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2002609826

Wave Condition: Not reported
Current Speed: Not reported
Current Direction: Not reported
Water Temperature: Not reported
Track Close Dir: Not reported
Empl Fatality: Not reported
Pass Fatality: Not reported
Community Impact: N
Wind Speed Unit: Not reported
Employee Injuries: Not reported
Passenger Injuries: Not reported
Occupant Fatality: Not reported
Current Speed Unit: Not reported
Road Closure Units: Not reported
Track Closures Units: Not reported
Sheen Size Units: Not reported
Additional Info: THE CALLER HAD NO ADDITIONAL INFORMATION
State Agency Notified: Not reported
Federal Agency Notified: Not reported
nearest River Mile Marker: Not reported
Sheen Size Length: Not reported
Sheen Size Length Units: Not reported
Sheen Size Width: Not reported
Sheen Size Width Units: Not reported
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: UNK

Calls:

NRC Report #: 609826
Site ID: 2002609826
Date Time Received: 2002-06-10 13:59:20
Date Time Complete: 2002-06-10 14:03:01
Call Type: INC
Responsible Company: Not reported
Responsible Org Type: UNKNOWN
Responsible City: Not reported
Responsible State: XX
Responsible Zip: Not reported
On Behalf: Not reported
Source: TELEPHONE

Material Involved:

NRC Report #: 609826
Chris Code: NCC
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 95.5
Unit of Measure: POUND(S)
Name of Material: DDD PESTICIDE
If Reached Water: NO
Amount in Water: Not reported
Unit of Measure Reach Water: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A2
Target
Property

900 UNIVERSITY V.C.R
RIVERSIDE, CA 92507

CHMIRS S100220308
N/A

Site 2 of 31 in cluster A

Actual:
1031 ft.

CHMIRS:
Name: Not reported
Address: 900 UNIVERSITY V.C.R
City,State,Zip: RIVERSIDE, CA 92507
OES Incident Number: 012393
OES notification: Not reported
OES Date: Not reported
OES Time: Not reported
Date Completed: 13-AUG-90
Property Use: 200
Agency Id Number: 33075
Agency Incident Number: 9011114
Time Notified: 1336
Time Completed: 1557
Surrounding Area: 200
Estimated Temperature: 100
Property Management: S
More Than Two Substances Involved?: N
Resp Agency Personel # Of Decontaminated: 0
Responding Agency Personel # Of Injuries: 0
Responding Agency Personel # Of Fatalities: 0
Others Number Of Decontaminated: 0
Others Number Of Injuries: 0
Others Number Of Fatalities: 0
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: CAPT. BILL AVILES F005
Report Date: 13-AUG-90
Facility Telephone: 714 782-5331
Waterway Involved: Not reported
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 88-92
Agency: Not reported
Incident Date: 13-AUG-90
Admin Agency: Not reported
Amount: Not reported
Contained: Not reported
Site Type: Not reported
E Date: 31-MAY-91
Substance: Not reported
Unknown: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S100220308

Substance #2: Not reported
Substance #3: Not reported
Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatafs: Not reported
Comments: Y
Description: Not reported

A3
Target
Property

COLLEGE OF HUNAITIES ARTS & SOICIAL SCIENCE
900 UNIVERSITY AVE
RIVERSIDE, CA 92507

CIWQS S121630221
N/A

Site 3 of 31 in cluster A

Actual:
1031 ft.

CIWQS:
Name: COLLEGE OF HUNAITIES ARTS & SOICIAL SCIENCE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Agency: UC Riverside
Agency Address: 3615A Canyon Crest Dr, Riverside, CA 92507
Place/Project Type: Construction - Utility
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 99-08DW
WDID: 8 33C342160
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 06/27/2006
Termination Date: 05/14/2008
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 0
Longitude: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A4
Target **ALEXANDER I PUTMAN**
Property **900 UNIVERSITY AVE ; BOYCE HALL**
RIVERSIDE, CA 92521

PEST LIC **S120767290**
N/A

Site 4 of 31 in cluster A

Actual: **PEST LIC:**
1031 ft. Name: ALEXANDER I PUTMAN
Address: 900 UNIVERSITY AVE ; BOYCE HALL
City,State,Zip: RIVERSIDE, CA 92521
Facility Type: QAL
Categories: J
License No: 143856
Issued or Renewed Date: 01/01/2022
Expiration Date: 12/31/2023

A5
Target **UC RIVERSIDE**
Property **ENVIRONMENTAL SAFETY AND HEALTH OFFICE 900 UNIVERSITY AVE**
RIVERSIDE, CA 92521

PRP **1026647515**
N/A

Site 5 of 31 in cluster A

Actual: **PRP:**
1031 ft. Name: UC RIVERSIDE
Address: ENVIRONMENTAL SAFETY AND HEALTH OFFICE 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Superfund EPAID: UTD980962591
Superfund Name: NORTH AMERICAN ENVIRONMENTAL
Superfund Address: FREEPORT CENTER BLDG G
Superfund City,State,Zip: CLEARFIELD, UT 84015
NPL Status: Not on the NPL
NPL Status Short Name: Referred to Removal - NFRAP
Data Type: GENERAL NOTICE
Action Date: 8/21/1992
Settlement Code: NJ-1
Settlement: Not Ltrs
Latitude: Not reported
Longitude: Not reported

A6
Target **900 UNIVERSTY AVE**
Property **RIVERSIDE, CA**

ERNS **2002594177**
N/A

Site 6 of 31 in cluster A

Actual: Incident Commons:
1031 ft. NRC Report #: 594177
Description of Incident: THE MATERIAL RELEASED FROM CHLORINATION CYLNDER DUE TO AN EQUIPMENT FAILURE.
Type of Incident: FIXED
Incident Cause: EQUIPMENT FAILURE
Incident Date Time: 1999-07-06 12:00:00
Incident DTG: OCCURRED
Incident Location: PHYSICAL EDUCATION BUILDING
Loaction Address: 900 UNIVERSTY AVE
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: RIVERSIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2002594177

Location State: CA
Location County: RIVERSIDE
Location Zip: Not reported
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Not reported

Incidents:

NRC Report #: 594177
Aircraft Type: UNKNOWN
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported
Aircraft Fuel on Board: Not reported
Aircraft Fuel on Board Units: Not reported
Aircraft Spot Number: Not reported
Aircraft Hanger: Not reported
Aircraft Runway Number: Not reported
Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: OTHER
Power Generating Facility: N
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U
Pipeline Type: Not reported
DOT Regulated: U
Pipeline Above Ground: ABOVE
Exposed Underwater: N
Pipeline Covered: U
Railroad Hotline: Not reported
Grade Crossing: N
Location Subdivision: Not reported
Railroad Milepost: Not reported
Type Vehicle Involved: Not reported
Crossing Device Type: Not reported
Device Operational: Y
DOT Crossing Number: Not reported
Brake Failure: N
Description of Tank: Not reported
Tank Above Ground: ABOVE
Transportable Container: U
Tank Regulated: U
Tank Regulated By: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2002594177

Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSF Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX
Incident Details:	
NRC Report #:	594177
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2002594177

Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	AIR
Additional Medium Info:	ATMOSPHERE
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	Not reported
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	UNKNOWN
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track Closure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	THE CALLER HAD NO ADDITIONAL INFORMATION.
State Agency Notified:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2002594177

Federal Agency Notified: Not reported
nearest River Mile Marker: Not reported
Sheen Size Length: Not reported
Sheen Size Length Units: Not reported
Sheen Size Width: Not reported
Sheen Size Width Units: Not reported
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: UNK

Calls:

NRC Report #: 594177
Site ID: 2002594177
Date Time Received: 2002-02-15 18:30:02
Date Time Complete: 2002-02-15 18:40:00
Call Type: INC
Responsible Company: UNIVERSTY OF CAL. RIVERSIDE
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: RIVERSIDE
Responsible State: CA
Responsible Zip: Not reported
On Behalf: Not reported
Source: TELEPHONE

Material Involved:

NRC Report #: 594177
Chris Code: CLX
Case Number: 007782-50-5
UN Number: Not reported
Amount of Material: 150
Unit of Measure: POUND(S)
Name of Material: CHLORINE
If Reached Water: NO
Amount in Water: Not reported
Unit of Measure Reach Water: Not reported

A7
Target
Property

900 UNIVERSITY AVE.
RIVERSIDE, CA

ERNS 2005779123
N/A

Site 7 of 31 in cluster A

Actual:
1031 ft.

Incident Commons:
NRC Report #: 779123
Description of Incident: MERCURY RELEASED FROM AN UNKNOWN SOURCE IN A BOILER ROOM.
Type of Incident: FIXED
Incident Cause: UNKNOWN
Incident Date Time: 2005-11-10 09:15:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 900 UNIVERSITY AVE.
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: RIVERSIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2005779123

Location State:	CA
Location County:	RIVERSIDE
Location Zip:	Not reported
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported
Incidents:	
NRC Report #:	779123
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	SCHOOL
Power Generating Facility:	N
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2005779123

Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSF Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	779123
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2005779123

Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	OTHER
Additional Medium Info:	/ BOILER ROOM FLOOR
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	PERFORMING CLEANUP / MATERIAL WILL BE DISPOSED OF BY HAZARDOUS WASTE PERSONNEL
State Agency on Scene:	Not reported
State Agency Report Number:	05-6510
Other Agency Notified:	Not reported
Weather Conditions:	PARTLY CLOUDY
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	CALLER HAD NO ADDITIONAL INFORMATION.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2005779123

State Agency Notified: CA OES, RIVERSIDE FIRE DEPT
Federal Agency Notified: Not reported
nearest River Mile Marker: Not reported
Sheen Size Length: Not reported
Sheen Size Length Units: Not reported
Sheen Size Width: Not reported
Sheen Size Width Units: Not reported
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: NO

Calls:

NRC Report #: 779123
Site ID: 2005779123
Date Time Received: 2005-11-10 13:00:47
Date Time Complete: 2005-11-10 13:04:40
Call Type: INC
Responsible Company: UNIVERSITY OF CALIFORNIA RIVERSIDE
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: RIVERSIDE
Responsible State: CA
Responsible Zip: 92521
On Behalf: Y
Source: TELEPHONE

Material Involved:

NRC Report #: 779123
Chris Code: MCR
Case Number: 007439-97-6
UN Number: Not reported
Amount of Material: 5
Unit of Measure: POUND(S)
Name of Material: MERCURY
If Reached Water: NO
Amount in Water: Not reported
Unit of Measure Reach Water: Not reported

A8
Target
Property

NEXTEL CELL SITE CA7222
900 UNIVERSITY AVE
RIVERSIDE, CA 92521

FINDS 1023316113
N/A

Site 8 of 31 in cluster A

Actual:
1031 ft.

FINDS:
Registry ID: 110066093300

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A9 UNIVERSITY OF CA RIVERSIDE
Target RIVERSIDE CAMPUS
Property RIVERSIDE, CA 92521

SEMS-ARCHIVE 1000431600
CORRACTS CAD073134777
RCRA-TSDF
RCRA-LQG
RAATS

Site 9 of 31 in cluster A

Actual:
1031 ft.

SEMS Archive:
Site ID: 0901566
EPA ID: CAD073134777
Name: UNIVERSITY OF CA RIVERSIDE
Address: RIVERSIDE CAMPUS
Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92521
Cong District: 36
FIPS Code: 06065
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 09
Site ID: 0901566
EPA ID: CAD073134777
Site Name: UNIVERSITY OF CA RIVERSIDE
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1990-07-20 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0901566
EPA ID: CAD073134777
Site Name: UNIVERSITY OF CA RIVERSIDE
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-08-01 04:00:00
Finish Date: 1980-08-01 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901566
EPA ID: CAD073134777
Site Name: UNIVERSITY OF CA RIVERSIDE
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Start Date: Not reported
Finish Date: 1986-09-01 04:00:00
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901566
EPA ID: CAD073134777
Site Name: UNIVERSITY OF CA RIVERSIDE
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 2
Start Date: Not reported
Finish Date: 1990-07-20 04:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901566
EPA ID: CAD073134777
Site Name: UNIVERSITY OF CA RIVERSIDE
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1985-04-01 06:00:00
Finish Date: 1985-07-01 05:00:00
Qual: L
Current Action Lead: St Perf

CORRACTS:

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 19940315
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 19951010
Air Release Indicator: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777
Area Name: ENTIRE FACILITY
Corrective Action: CMS WORKPLAN APPROVED
Actual Date: 19951010
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777
Area Name: ENTIRE FACILITY
Corrective Action: CMS COMPLETE
Actual Date: 19951010
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777
Area Name: ENTIRE FACILITY
Corrective Action: STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
Actual Date: 19940523
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777
Area Name: ENTIRE FACILITY
Corrective Action: CMI WORKPLAN APPROVED
Actual Date: 19960906
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Area Name: ENTIRE FACILITY
Corrective Action: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS EXPOSURE CONTROL
Actual Date: 19901201
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777

Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 19980603
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777

Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 19980603
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
EPA ID: CAD073134777

Area Name: ENTIRE FACILITY
Corrective Action: REMEDY DECISION
Actual Date: 19960516
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

[Click this hyperlink](#) while viewing on your computer to access additional CORRACTS: detail in the EDR Site Report.

RCRA-LQG:

Date Form Received by Agency: 20220301
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Handler Address: 900 UNIVERSITY AVE
Handler City,State,Zip: RIVERSIDE, CA 92521-0001
EPA ID: CAD073134777
Contact Name: JUAN C SANCHEZ
Contact Address: UNIVERSITY AVE

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Contact City,State,Zip:	RIVERSIDE, CA 92521-0001
Contact Telephone:	951-827-2648
Contact Fax:	951-827-5122
Contact Email:	JUAN.C.SANCHEZ@UCR.EDU
Contact Title:	HAZARDOUS WASTE SUPERVISOR
EPA Region:	09
Land Type:	State
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2021
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Permitting Activities, Corrective Action Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	UNIVERSITY AVE
Mailing City,State,Zip:	RIVERSIDE, CA 92521-0001
Owner Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Owner Type:	State
Operator Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Operator Type:	State
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Land Disposal
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Land Disposal, Storage
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Land Disposal, Storage
Post-Closure Workload Universe:	Land Disposal
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	Yes
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

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UNIVERSITY OF CA RIVERSIDE (Continued)

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Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Land Disposal
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220613
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE

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Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D012
Waste Description:	ENDRIN (1,2,3,4,10,10-HEXACHLORO-1,7-EPOXY-1,4,4A,5,6,7,8,8A-OCTAHYDRO-1,4-EN DO, ENDO-5,8-DIMETH-ANO-NAPHTHALENE)
Waste Code:	D013
Waste Description:	LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)
Waste Code:	D014
Waste Description:	METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [P-METHOXYPHENYL] ETHANE)
Waste Code:	D015
Waste Description:	TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHENE, 67-69 PERCENT CHLORINE)
Waste Code:	D016
Waste Description:	2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
Waste Code:	D017
Waste Description:	2,4,5-TP SILVEX (2,4,5-TRICHLOROPHENOXYPROPIONIC ACID)
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D019
Waste Description:	CARBON TETRACHLORIDE
Waste Code:	D022
Waste Description:	CHLOROFORM

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Waste Code: D023
Waste Description: O-CRESOL

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: D025
Waste Description: P-CRESOL

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D031
Waste Description: HEPTACHLOR (AND ITS EPOXIDE)

Waste Code: D038
Waste Description: PYRIDINE

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F004
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS

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CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code:	F027
Waste Description:	DISCARDED UNUSED FORMULATIONS CONTAINING TRI-, TETRA-, OR PENTACHLOROPHENOL OR DISCARDED UNUSED FORMULATIONS CONTAINING COMPOUNDS DERIVED FROM THESE CHLOROPHENOLS. (THIS LISTING DOES NOT INCLUDE FORMULATIONS CONTAINING HEXACHLOROPHENE SYNTHESIZED FROM PREPURIFIED 2,4,5-TRICHLOROPHENOL AS THE SOLE COMPONENT.)
Waste Code:	LABP
Waste Description:	LAB PACK
Waste Code:	P001
Waste Description:	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Waste Code:	P003
Waste Description:	2-PROPENAL (OR) ACROLEIN
Waste Code:	P004
Waste Description:	1,4,5,8-DIMETHANONAPHTHALENE, 1,2,3,4,10,10-HEXA-CHLORO-1,4,4A,5,8,8A,-HEXAHYDRO-, (1ALPHA, 4ALPHA, 4ABETA, 5ALPHA, 8ALPHA, 8ABETA)- (OR) ALDRIN
Waste Code:	P005
Waste Description:	2-PROPEN-1-OL (OR) ALLYL ALCOHOL
Waste Code:	P010
Waste Description:	ARSENIC ACID H3ASO4
Waste Code:	P012
Waste Description:	ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE
Waste Code:	P014
Waste Description:	BENZENETHIOL (OR) THIOPHENOL
Waste Code:	P018
Waste Description:	BRUCINE (OR) STRYCHNIDIN-10-ONE, 2,3-DIMETHOXY-
Waste Code:	P020
Waste Description:	DINOSEB (OR) PHENOL, 2-(1-METHYLPROPYL)-4,6-DINITRO-
Waste Code:	P022
Waste Description:	CARBON DISULFIDE
Waste Code:	P023
Waste Description:	ACETALDEHYDE, CHLORO- (OR) CHLOROACETALDEHYDE
Waste Code:	P024
Waste Description:	BENZENAMINE, 4-CHLORO- (OR) P-CHLORANILINE
Waste Code:	P030
Waste Description:	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

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Waste Code:	P037
Waste Description:	2,7:3,6-DIMETHANONAPHTH[2,3-B]OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-, (1AALPHA, 2BETA, 2AALPHA, 3BETA, 6BETA, 6AALPHA, 7BETA, 7AALPHA)- (OR) DIELDRIN
Waste Code:	P041
Waste Description:	DIETHYL-P-NITROPHENYL PHOSPHATE (OR) PHOSPHORIC ACID, DIETHYL 4-NITROPHENYL ESTER
Waste Code:	P042
Waste Description:	1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE
Waste Code:	P044
Waste Description:	DIMETHOATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIMETHYL S-[2-(METHYLAMINO)-2-OXOETHYL] ESTER
Waste Code:	P048
Waste Description:	2,4-DINITROPHENOL (OR) PHENOL, 2,4-DINITRO-
Waste Code:	P063
Waste Description:	HYDROCYANIC ACID (OR) HYDROGEN CYANIDE
Waste Code:	P066
Waste Description:	ETHANIMIDOTHIOIC ACID, N-[[[(METHYLAMINO)CARBONYL]OXY]-, METHYL ESTER (OR) METHOMYL
Waste Code:	P070
Waste Description:	ALDICARB (OR) PROPANAL, 2-METHYL-2-(METHYLTHIO)-, O-[(METHYLAMINO)CARBONYL]OXIME
Waste Code:	P071
Waste Description:	METHYL PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O,-DIMETHYL O-(4-NITROPHENYL) ESTER
Waste Code:	P075
Waste Description:	NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS
Waste Code:	P076
Waste Description:	NITRIC OXIDE (OR) NITROGEN OXIDE NO
Waste Code:	P077
Waste Description:	BENZENAMINE, 4-NITRO- (OR) P-NITROANILINE
Waste Code:	P078
Waste Description:	NITROGEN DIOXIDE (OR) NITROGEN OXIDE NO2
Waste Code:	P087
Waste Description:	OSMIUM OXIDE OSO4, (T-4)- (OR) OSMIUM TETROXIDE
Waste Code:	P088
Waste Description:	7-OXABICYCLO[2.2.1]HEPTANE-2,3-DICARBOXYLIC ACID (OR) ENDOTHALL
Waste Code:	P089
Waste Description:	PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O-DIETHYL-O-(4-NITROPHENYL) ESTER

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Waste Code:	P094
Waste Description:	PHORATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[(ETHYLTHIO)METHYL] ESTER
Waste Code:	P095
Waste Description:	CARBONIC DICHLORIDE (OR) PHOSGENE
Waste Code:	P098
Waste Description:	POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
Waste Code:	P101
Waste Description:	ETHYL CYANIDE (OR) PROPANENITRILE
Waste Code:	P102
Waste Description:	2-PROPYN-1-OL (OR) PROPARGYL ALCOHOL
Waste Code:	P105
Waste Description:	SODIUM AZIDE
Waste Code:	P106
Waste Description:	SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)
Waste Code:	P108
Waste Description:	STRYCHNIDIN-10-ONE, & SALTS (OR) STRYCHNINE, & SALTS
Waste Code:	P109
Waste Description:	TETRAETHYLDITHIOPYROPHOSPHATE (OR) THIODIPHOSPHORIC ACID, TETRAETHYL ESTER
Waste Code:	P111
Waste Description:	DIPHOSPHORIC ACID, TETRAETHYL ESTER (OR) TETRAETHYL PYROPHOSPHATE
Waste Code:	P113
Waste Description:	THALLIC OXIDE (OR) THALLIUM OXIDE TL2O3
Waste Code:	P115
Waste Description:	SULFURIC ACID, DITHALLIUM (1+) SALT (OR) THALLIUM(I) SULFATE
Waste Code:	P119
Waste Description:	AMMONIUM VANADATE (OR) VANADIC ACID, AMMONIUM SALT
Waste Code:	P120
Waste Description:	VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE
Waste Code:	P194
Waste Description:	ETHANIMIDOTHIOIC ACID, 2-(DIMETHYLAMINO)-N-[(METHYLAMINO) CARBONYL]OXY]-2-OXO-, METHYL ESTER (OR) OXAMYL
Waste Code:	U001
Waste Description:	ACETALDEHYDE (I) (OR) ETHANAL (I)
Waste Code:	U002
Waste Description:	2-PROPANONE (I) (OR) ACETONE (I)
Waste Code:	U003
Waste Description:	ACETONITRILE (I,T)

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Waste Code:	U006
Waste Description:	ACETYL CHLORIDE (C,R,T)
Waste Code:	U007
Waste Description:	2-PROPENAMIDE (OR) ACRYLAMIDE
Waste Code:	U009
Waste Description:	2-PROPENENITRILE (OR) ACRYLONITRILE
Waste Code:	U012
Waste Description:	ANILINE (I,T) (OR) BENZENAMINE (I,T)
Waste Code:	U019
Waste Description:	BENZENE (I,T)
Waste Code:	U029
Waste Description:	METHANE, BROMO- (OR) METHYL BROMIDE
Waste Code:	U031
Waste Description:	1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)
Waste Code:	U038
Waste Description:	BENZENEACETIC ACID, 4-CHLORO-ALPHA-(4-CHLOROPHENYL)-ALPHA-HYDROXY-, ETHYL ESTER (OR) CHLOROBENZILATE
Waste Code:	U043
Waste Description:	ETHENE, CHLORO- (OR) VINYL CHLORIDE
Waste Code:	U044
Waste Description:	CHLOROFORM (OR) METHANE, TRICHLORO-
Waste Code:	U046
Waste Description:	CHLOROMETHYL METHYL ETHER (OR) METHANE, CHLOROMETHOXY-
Waste Code:	U052
Waste Description:	CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-
Waste Code:	U053
Waste Description:	2-BUTENAL (OR) CROTONALDEHYDE
Waste Code:	U056
Waste Description:	BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)
Waste Code:	U057
Waste Description:	CYCLOHEXANONE (I)
Waste Code:	U061
Waste Description:	BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDT
Waste Code:	U069
Waste Description:	1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE
Waste Code:	U072
Waste Description:	BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE
Waste Code:	U076
Waste Description:	ETHANE, 1,1-DICHLORO- (OR) ETHYLIDENE DICHLORIDE

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Waste Code:	U077
Waste Description:	ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE
Waste Code:	U078
Waste Description:	1,1-DICHLOROETHYLENE (OR) ETHENE, 1,1-DICHLORO-
Waste Code:	U080
Waste Description:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
Waste Code:	U081
Waste Description:	2,4-DICHLOROPHENOL (OR) PHENOL, 2,4-DICHLORO-
Waste Code:	U103
Waste Description:	DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER
Waste Code:	U108
Waste Description:	1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE
Waste Code:	U112
Waste Description:	ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)
Waste Code:	U115
Waste Description:	ETHYLENE OXIDE (I,T) (OR) OXIRANE (I,T)
Waste Code:	U117
Waste Description:	ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)
Waste Code:	U122
Waste Description:	FORMALDEHYDE
Waste Code:	U123
Waste Description:	FORMIC ACID (C,T)
Waste Code:	U124
Waste Description:	FURAN (I) (OR) FURFURAN (I)
Waste Code:	U130
Waste Description:	1,3-CYCLOPENTADIENE, 1,2,3,4,5,5-HEXACHLORO- (OR) HEXACHLOROCYCLOPENTADIENE
Waste Code:	U133
Waste Description:	HYDRAZINE (R,T)
Waste Code:	U134
Waste Description:	HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)
Waste Code:	U135
Waste Description:	HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S
Waste Code:	U138
Waste Description:	METHANE, IODO- (OR) METHYL IODIDE
Waste Code:	U140
Waste Description:	1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)
Waste Code:	U144
Waste Description:	ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Waste Code:	U145
Waste Description:	LEAD PHOSPHATE (OR) PHOSPHORIC ACID, LEAD(2+) SALT (2:3)
Waste Code:	U146
Waste Description:	LEAD SUBACETATE (OR) LEAD, BIS(ACETATO-O)TETRAHYDROXYTRI-
Waste Code:	U149
Waste Description:	MALONONITRILE (OR) PROPANEDINITRILE
Waste Code:	U151
Waste Description:	MERCURY
Waste Code:	U154
Waste Description:	METHANOL (I) (OR) METHYL ALCOHOL (I)
Waste Code:	U161
Waste Description:	4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-
Waste Code:	U162
Waste Description:	2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)
Waste Code:	U165
Waste Description:	NAPHTHALENE
Waste Code:	U169
Waste Description:	BENZENE, NITRO- (OR) NITROBENZENE (I,T)
Waste Code:	U177
Waste Description:	N-NITROSO-N-METHYLUREA (OR) UREA, N-METHYL-N-NITROSO-
Waste Code:	U186
Waste Description:	1,3-PENTADIENE (I) (OR) 1-METHYLBUTADIENE (I)
Waste Code:	U188
Waste Description:	PHENOL
Waste Code:	U189
Waste Description:	PHOSPHORUS SULFIDE (R) (OR) SULFUR PHOSPHIDE (R)
Waste Code:	U196
Waste Description:	PYRIDINE
Waste Code:	U210
Waste Description:	ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE
Waste Code:	U211
Waste Description:	CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-
Waste Code:	U213
Waste Description:	FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)
Waste Code:	U217
Waste Description:	NITRIC ACID, THALLIUM(1+) SALT (OR) THALLIUM(I) NITRATE
Waste Code:	U220

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Database(s)

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 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Waste Description:	BENZENE, METHYL- (OR) TOLUENE
Waste Code:	U226
Waste Description:	ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM
Waste Code:	U236
Waste Description:	2,7-NAPHTHALENEDISULFONIC ACID,3,3'-[(3,3'-DIMETHYL[1,1'-BIPHENYL]-4,4'-DIYL)BIS(AZO)BIS[5-AMINO-4-HYDROXY]-, TETRASODIUM SALT (OR) TRYPAN BLUE
Waste Code:	U238
Waste Description:	CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)
Waste Code:	U239
Waste Description:	BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)
Waste Code:	U246
Waste Description:	CYANOGEN BROMIDE (CN)BR
Waste Code:	U271
Waste Description:	BENOMYL (OR) CARBAMIC ACID, [1-[(BUTYLAMINO)CARBONYL]-1H-BENZIMIDAZOL-2-YL]-, METHYL ESTER
Waste Code:	U278
Waste Description:	BENDIOCARB (OR) 1,3-BENZODIOXOL-4-OL, 2,2-DIMETHYL-, METHYL CARBAMATE
Waste Code:	U279
Waste Description:	U279
Waste Code:	U328
Waste Description:	BENZENAMINE, 2-METHYL- (OR) O-TOLUIDINE
Waste Code:	U353
Waste Description:	BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE
Waste Code:	U404
Waste Description:	U404
Waste Code:	U411
Waste Description:	U411

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: UC RIVERSIDE EHAS	
Legal Status:	State
Date Became Current:	19900101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	CA 94607
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: U.C. REGENTS	
Legal Status:	State

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN ST
Owner/Operator City,State,Zip:	OAKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN STREET
Owner/Operator City,State,Zip:	OAKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	REGENTSOFFICE@UCOP.EDU
Owner/Operator Indicator:	Operator
Owner/Operator Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN STREET
Owner/Operator City,State,Zip:	OKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	REGENTSOFFICE@UCOP.EDU
Owner/Operator Indicator:	Operator
Owner/Operator Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN STREET
Owner/Operator City,State,Zip:	OKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	REGENTSOFFICE@UCOP.EDU
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CHANCELLOR FRANCE A CORDOVA
Legal Status:	State
Date Became Current:	20020701
Date Ended Current:	Not reported
Owner/Operator Address:	EH&S 900 N UNIVERSITY AVE
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92521
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

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EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Owner/Operator Indicator:	Owner
Owner/Operator Name:	REGENTS UC
Legal Status:	Private
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	900 UNIVERSITY AVENUE
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92521
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNIVERSITY OF CALIFORNIA RIVERSIDE
Legal Status:	Private
Date Became Current:	19900101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN STREET
Owner/Operator City,State,Zip:	OAKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	REGENTSOFFICE@UCOP.EDU
Owner/Operator Indicator:	Operator
Owner/Operator Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN STREET
Owner/Operator City,State,Zip:	OKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported

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Site

Database(s)

EDR ID Number
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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Owner/Operator Fax: Not reported
Owner/Operator Email: REGENTSOFFICE@UCOP.EDU

Owner/Operator Indicator: Operator
Owner/Operator Name: REGENTS UC
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: 1111 FRANKLIN STREET
Owner/Operator City,State,Zip: OAKLAND, CA 94607
Owner/Operator Telephone: 510-987-9200
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 112
Owner/Operator City,State,Zip: CITY NOT REPORTED, CA 99999
Owner/Operator Telephone: 714-787-5529
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 112
Owner/Operator City,State,Zip: RIVERSIDE, CA 92521
Owner/Operator Telephone: 714-787-5529
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: REGENTS, UC
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: Not reported

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Database(s)

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UC REGENTS
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: 1111 FRANKLIN ST
Owner/Operator City,State,Zip: OAKLAND, CA 94607
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: 1111 FRANKLIN STREET
Owner/Operator City,State,Zip: OAKLAND, CA 94607
Owner/Operator Telephone: 510-987-9200
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: REGENTSOFFICE@UCOP.EDU

Owner/Operator Indicator: Owner
Owner/Operator Name: CHANCELLOR FRANCE A. CORDOVA
Legal Status: State
Date Became Current: 20020701
Date Ended Current: Not reported
Owner/Operator Address: 900 N UNIVERSITY AVE
Owner/Operator City,State,Zip: RIVERSIDE, CA 92521
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: U.C. REGENTS
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: 1111 FRANKLIN ST
Owner/Operator City,State,Zip: OAKLAND, CA 94607
Owner/Operator Telephone: 510-987-9200
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20100301
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130319
Handler Name: UNIVERISTY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160222
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180228
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20200228
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No
Receive Date:	20220301
Handler Name:	UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No
Receive Date:	19960901
Handler Name:	UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19800818
Handler Name:	UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19900413
Handler Name:	UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Receive Date: 19920226
Handler Name: UNIVERSITY OF CALIFORNIA RIVER
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940331
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960401
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990304
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20001012
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020226
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040324
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060227
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20080227
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 111998
NAICS Description: ALL OTHER MISCELLANEOUS CROP FARMING

NAICS Code: 61131
NAICS Description: COLLEGES, UNIVERSITIES, AND PROFESSIONAL SCHOOLS

NAICS Code: 611310
NAICS Description: COLLEGES, UNIVERSITIES, AND PROFESSIONAL SCHOOLS

Facility Has Received Notices of Violation:

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19900627
Actual Return to Compliance Date: 19910430
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 005
Date of Enforcement Action: 19901109
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 76800
Final Monetary Amount: 76800
Paid Amount: Not reported
Final Count: 1
Final Amount: 76800

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

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EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20141113
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	20150112
Enforcement Identifier:	601
Date of Enforcement Action:	20141113
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-Contingency Plan and Emergency Procedures
Date Violation was Determined:	20101006

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date:	20101101
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	19880915
Actual Return to Compliance Date:	19890520
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19890520
Enforcement Identifier:	001
Date of Enforcement Action:	19890414
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19880915
Actual Return to Compliance Date:	19890520
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19890520
Enforcement Identifier:	001
Date of Enforcement Action:	19890414
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20020730
Actual Return to Compliance Date:	20020730
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20020730
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	VGARC
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19890911

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date:	19910430
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19891213
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20020730
Actual Return to Compliance Date:	20020730
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20040930
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	RCRA9-2004-0004
Enforcement Attorney:	MOORE
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person:	NRUMR
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19910622
Actual Return to Compliance Date:	19911021
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19910910
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19890911

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date: 19910430
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 005
Date of Enforcement Action: 19901109
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 76800
Final Monetary Amount: 76800
Paid Amount: Not reported
Final Count: 1
Final Amount: 76800

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20101006
Actual Return to Compliance Date: 20101006
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	19910622
Actual Return to Compliance Date:	19911021
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19910910
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19910622
Actual Return to Compliance Date:	19911021
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19910910
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19910622
Actual Return to Compliance Date:	19911021
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19910910
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20020730

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date:	20020730
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20020730
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	VGARC
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-General Facility Standards
Date Violation was Determined:	20101006
Actual Return to Compliance Date:	20101101
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20141113
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	20150112
Enforcement Identifier:	601
Date of Enforcement Action:	20141113
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20141113

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EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	20150112
Enforcement Identifier:	601
Date of Enforcement Action:	20141113
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20020730
Actual Return to Compliance Date:	20020730
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20040930
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	RCRA9-2004-0004
Enforcement Attorney:	MOORE
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person: NRUMR
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19900627

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EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date:	19910430
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19900815
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

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Database(s)

EDR ID Number
 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19890911
Actual Return to Compliance Date:	19910430
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19891213
Enforcement Identifier:	003
Date of Enforcement Action:	19891113
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

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EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Evaluation Action Summary:	
Evaluation Date:	19900627
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910430
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141119
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040401
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	NRUMR
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141113
Evaluation Responsible Agency:	State

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

<p>Found Violation: Evaluation Type Description: Evaluation Responsible Person Identifier: Evaluation Responsible Sub-Organization: Actual Return to Compliance Date: Scheduled Compliance Date: Date of Request: Date Response Received: Request Agency: Former Citation:</p>	<p>Yes COMPLIANCE EVALUATION INSPECTION ON-SITE Not reported Not reported Not reported 20150112 Not reported Not reported Not reported Not reported Not reported</p>
<p>Evaluation Date: Evaluation Responsible Agency: Found Violation: Evaluation Type Description: Evaluation Responsible Person Identifier: Evaluation Responsible Sub-Organization: Actual Return to Compliance Date: Scheduled Compliance Date: Date of Request: Date Response Received: Request Agency: Former Citation:</p>	<p>20101006 EPA Yes COMPLIANCE EVALUATION INSPECTION ON-SITE DFERN Not reported 20101101 Not reported Not reported Not reported Not reported Not reported Not reported</p>
<p>Evaluation Date: Evaluation Responsible Agency: Found Violation: Evaluation Type Description: Evaluation Responsible Person Identifier: Evaluation Responsible Sub-Organization: Actual Return to Compliance Date: Scheduled Compliance Date: Date of Request: Date Response Received: Request Agency: Former Citation:</p>	<p>19880915 EPA Yes COMPLIANCE EVALUATION INSPECTION ON-SITE R9EPA Not reported 19890520 19890520 Not reported Not reported Not reported Not reported Not reported</p>
<p>Evaluation Date: Evaluation Responsible Agency: Found Violation: Evaluation Type Description: Evaluation Responsible Person Identifier: Evaluation Responsible Sub-Organization: Actual Return to Compliance Date: Scheduled Compliance Date: Date of Request: Date Response Received: Request Agency: Former Citation:</p>	<p>20141120 State No COMPLIANCE EVALUATION INSPECTION ON-SITE Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported</p>
<p>Evaluation Date: Evaluation Responsible Agency: Found Violation: Evaluation Type Description: Evaluation Responsible Person Identifier: Evaluation Responsible Sub-Organization: Actual Return to Compliance Date:</p>	<p>20040401 EPA No NOT A SIGNIFICANT NON-COMPLIER NRUMR Not reported Not reported</p>

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EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880915
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890520
Scheduled Compliance Date:	19890520
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020730
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	VGARC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020730
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890911
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910430
Scheduled Compliance Date:	19891213
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020730
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	VGARC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020730
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Evaluation Date: 19910430
Evaluation Responsible Agency: EPA Contractor/Grantee
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19911021
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19890911
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19910430
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20101006
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: DFERN
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20101006
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19910430
Evaluation Responsible Agency: EPA Contractor/Grantee
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19911021
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19910430
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910430
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911021
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910430
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911021
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020730
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	VGARC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020730
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101006
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	DFERN
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101101
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

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EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141113
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	20150112
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141113
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	20150112
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020730
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	VGARC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020730
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141119
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900627
Evaluation Responsible Agency:	EPA

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EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910430
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050405
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	CMCDO
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890911
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910430
Scheduled Compliance Date:	19891213
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141120
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141113
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

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Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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RCRA-LQG:

Date Form Received by Agency:	20220301
Handler Name:	UNIVERSITY OF CALIFORNIA, RIVERSIDE
Handler Address:	900 UNIVERSITY AVE
Handler City,State,Zip:	RIVERSIDE, CA 92521-0001
EPA ID:	CAD073134777
Contact Name:	JUAN C SANCHEZ
Contact Address:	UNIVERSITY AVE
Contact City,State,Zip:	RIVERSIDE, CA 92521-0001
Contact Telephone:	951-827-2648
Contact Fax:	951-827-5122
Contact Email:	JUAN.C.SANCHEZ@UCR.EDU
Contact Title:	HAZARDOUS WASTE SUPERVISOR
EPA Region:	09
Land Type:	State
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2021
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Permitting Activities, Corrective Action Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	UNIVERSITY AVE
Mailing City,State,Zip:	RIVERSIDE, CA 92521-0001
Owner Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Owner Type:	State
Operator Name:	REGENTS OF THE UNIVERSITY OF CALIFORNIA
Operator Type:	State
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Land Disposal
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Land Disposal, Storage
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Land Disposal, Storage
Post-Closure Workload Universe:	Land Disposal

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Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	Yes
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Land Disposal
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220613
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

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Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D012
Waste Description:	ENDRIN (1,2,3,4,10,10-HEXACHLORO-1,7-EPOXY-1,4,4A,5,6,7,8,8A-OCTAHYDRO-1,4-EN DO, ENDO-5,8-DIMETH-ANO-NAPHTHALENE)
Waste Code:	D013
Waste Description:	LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)
Waste Code:	D014
Waste Description:	METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [P-METHOXYPHENYL] ETHANE)
Waste Code:	D015
Waste Description:	TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHERE, 67-69 PERCENT CHLORINE)
Waste Code:	D016
Waste Description:	2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
Waste Code:	D017
Waste Description:	2,4,5-TP SILVEX (2,4,5-TRICHLOROPHENOXYPROPIONIC ACID)
Waste Code:	D018
Waste Description:	BENZENE

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Waste Code:	D019
Waste Description:	CARBON TETRACHLORIDE
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	D023
Waste Description:	O-CRESOL
Waste Code:	D024
Waste Description:	M-CRESOL
Waste Code:	D025
Waste Description:	P-CRESOL
Waste Code:	D027
Waste Description:	1,4-DICHLOROBENZENE
Waste Code:	D028
Waste Description:	1,2-DICHLOROETHANE
Waste Code:	D031
Waste Description:	HEPTACHLOR (AND ITS EPOXIDE)
Waste Code:	D038
Waste Description:	PYRIDINE
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F004
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

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SPENT SOLVENT MIXTURES.

Waste Code:	F005
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F027
Waste Description:	DISCARDED UNUSED FORMULATIONS CONTAINING TRI-, TETRA-, OR PENTACHLOROPHENOL OR DISCARDED UNUSED FORMULATIONS CONTAINING COMPOUNDS DERIVED FROM THESE CHLOROPHENOLS. (THIS LISTING DOES NOT INCLUDE FORMULATIONS CONTAINING HEXACHLOROPHENE SYNTHESIZED FROM PREPURIFIED 2,4,5-TRICHLOROPHENOL AS THE SOLE COMPONENT.)
Waste Code:	LABP
Waste Description:	LAB PACK
Waste Code:	P001
Waste Description:	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Waste Code:	P003
Waste Description:	2-PROPENAL (OR) ACROLEIN
Waste Code:	P004
Waste Description:	1,4,5,8-DIMETHANONAPHTHALENE, 1,2,3,4,10,10-HEXA-CHLORO-1,4,4A,5,8,8A,-HEXAHYDRO-, (1ALPHA, 4ALPHA, 4ABETA, 5ALPHA, 8ALPHA, 8ABETA)- (OR) ALDRIN
Waste Code:	P005
Waste Description:	2-PROPEN-1-OL (OR) ALLYL ALCOHOL
Waste Code:	P010
Waste Description:	ARSENIC ACID H3ASO4
Waste Code:	P012
Waste Description:	ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE
Waste Code:	P014
Waste Description:	BENZENETHIOL (OR) THIOPHENOL
Waste Code:	P018
Waste Description:	BRUCINE (OR) STRYCHNIDIN-10-ONE, 2,3-DIMETHOXY-
Waste Code:	P020
Waste Description:	DINOSEB (OR) PHENOL, 2-(1-METHYLPROPYL)-4,6-DINITRO-
Waste Code:	P022
Waste Description:	CARBON DISULFIDE
Waste Code:	P023
Waste Description:	ACETALDEHYDE, CHLORO- (OR) CHLOROACETALDEHYDE

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Waste Code: P024
Waste Description: BENZENAMINE, 4-CHLORO- (OR) P-CHLORANILINE

Waste Code: P030
Waste Description: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

Waste Code: P037
Waste Description: 2,7:3,6-DIMETHANONAPHTH[2,3-B]OXIRENE,
3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-, (1AALPHA,
2BETA, 2AALPHA, 3BETA, 6BETA, 6AALPHA, 7BETA, 7AALPHA)- (OR) DIELDRIN

Waste Code: P041
Waste Description: DIETHYL-P-NITROPHENYL PHOSPHATE (OR) PHOSPHORIC ACID, DIETHYL
4-NITROPHENYL ESTER

Waste Code: P042
Waste Description: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR)
EPINEPHRINE

Waste Code: P044
Waste Description: DIMETHOATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIMETHYL
S-[2-(METHYLAMINO)-2-OXOETHYL] ESTER

Waste Code: P048
Waste Description: 2,4-DINITROPHENOL (OR) PHENOL, 2,4-DINITRO-

Waste Code: P063
Waste Description: HYDROCYANIC ACID (OR) HYDROGEN CYANIDE

Waste Code: P066
Waste Description: ETHANIMIDOTHIOIC ACID, N-[[[(METHYLAMINO)CARBONYL]OXY]-, METHYL ESTER
(OR) METHOMYL

Waste Code: P070
Waste Description: ALDICARB (OR) PROPANAL, 2-METHYL-2-(METHYLTHIO)-,
O-[(METHYLAMINO)CARBONYL]OXIME

Waste Code: P071
Waste Description: METHYL PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O,-DIMETHYL
O-(4-NITROPHENYL) ESTER

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, &
SALTS

Waste Code: P076
Waste Description: NITRIC OXIDE (OR) NITROGEN OXIDE NO

Waste Code: P077
Waste Description: BENZENAMINE, 4-NITRO- (OR) P-NITROANILINE

Waste Code: P078
Waste Description: NITROGEN DIOXIDE (OR) NITROGEN OXIDE NO2

Waste Code: P087
Waste Description: OSMIUM OXIDE OSO4, (T-4)- (OR) OSMIUM TETROXIDE

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Waste Code:	P088
Waste Description:	7-OXABICYCLO[2.2.1]HEPTANE-2,3-DICARBOXYLIC ACID (OR) ENDOTHALL
Waste Code:	P089
Waste Description:	PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O-DIETHYL-O-(4-NITROPHENYL) ESTER
Waste Code:	P094
Waste Description:	PHORATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[(ETHYLTHIO)METHYL] ESTER
Waste Code:	P095
Waste Description:	CARBONIC DICHLORIDE (OR) PHOSGENE
Waste Code:	P098
Waste Description:	POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
Waste Code:	P101
Waste Description:	ETHYL CYANIDE (OR) PROPANENITRILE
Waste Code:	P102
Waste Description:	2-PROPYN-1-OL (OR) PROPARGYL ALCOHOL
Waste Code:	P105
Waste Description:	SODIUM AZIDE
Waste Code:	P106
Waste Description:	SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)
Waste Code:	P108
Waste Description:	STRYCHNIDIN-10-ONE, & SALTS (OR) STRYCHNINE, & SALTS
Waste Code:	P109
Waste Description:	TETRAETHYLDITHIOPYROPHOSPHATE (OR) THIODIPHOSPHORIC ACID, TETRAETHYL ESTER
Waste Code:	P111
Waste Description:	DIPHOSPHORIC ACID, TETRAETHYL ESTER (OR) TETRAETHYL PYROPHOSPHATE
Waste Code:	P113
Waste Description:	THALLIC OXIDE (OR) THALLIUM OXIDE TL2O3
Waste Code:	P115
Waste Description:	SULFURIC ACID, DITHALLIUM (1+) SALT (OR) THALLIUM(I) SULFATE
Waste Code:	P119
Waste Description:	AMMONIUM VANADATE (OR) VANADIC ACID, AMMONIUM SALT
Waste Code:	P120
Waste Description:	VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE
Waste Code:	P194
Waste Description:	ETHANIMIDOTHIOIC ACID, 2-(DIMETHYLAMINO)-N-[(METHYLAMINO) CARBONYL]OXY]-2-OXO-, METHYL ESTER (OR) OXAMYL
Waste Code:	U001
Waste Description:	ACETALDEHYDE (I) (OR) ETHANAL (I)

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Waste Code:	U002
Waste Description:	2-PROPANONE (I) (OR) ACETONE (I)
Waste Code:	U003
Waste Description:	ACETONITRILE (I,T)
Waste Code:	U006
Waste Description:	ACETYL CHLORIDE (C,R,T)
Waste Code:	U007
Waste Description:	2-PROPENAMIDE (OR) ACRYLAMIDE
Waste Code:	U009
Waste Description:	2-PROPENITRILE (OR) ACRYLONITRILE
Waste Code:	U012
Waste Description:	ANILINE (I,T) (OR) BENZENAMINE (I,T)
Waste Code:	U019
Waste Description:	BENZENE (I,T)
Waste Code:	U029
Waste Description:	METHANE, BROMO- (OR) METHYL BROMIDE
Waste Code:	U031
Waste Description:	1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)
Waste Code:	U038
Waste Description:	BENZENEACETIC ACID, 4-CHLORO-ALPHA-(4-CHLOROPHENYL)-ALPHA-HYDROXY-, ETHYL ESTER (OR) CHLOROBENZILATE
Waste Code:	U043
Waste Description:	ETHENE, CHLORO- (OR) VINYL CHLORIDE
Waste Code:	U044
Waste Description:	CHLOROFORM (OR) METHANE, TRICHLORO-
Waste Code:	U046
Waste Description:	CHLOROMETHYL METHYL ETHER (OR) METHANE, CHLOROMETHOXY-
Waste Code:	U052
Waste Description:	CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-
Waste Code:	U053
Waste Description:	2-BUTENAL (OR) CROTONALDEHYDE
Waste Code:	U056
Waste Description:	BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)
Waste Code:	U057
Waste Description:	CYCLOHEXANONE (I)
Waste Code:	U061
Waste Description:	BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDT
Waste Code:	U069
Waste Description:	1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE

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Waste Code:	U072
Waste Description:	BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE
Waste Code:	U076
Waste Description:	ETHANE, 1,1-DICHLORO- (OR) ETHYLIDENE DICHLORIDE
Waste Code:	U077
Waste Description:	ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE
Waste Code:	U078
Waste Description:	1,1-DICHLOROETHYLENE (OR) ETHENE, 1,1-DICHLORO-
Waste Code:	U080
Waste Description:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
Waste Code:	U081
Waste Description:	2,4-DICHLOROPHENOL (OR) PHENOL, 2,4-DICHLORO-
Waste Code:	U103
Waste Description:	DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER
Waste Code:	U108
Waste Description:	1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE
Waste Code:	U112
Waste Description:	ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)
Waste Code:	U115
Waste Description:	ETHYLENE OXIDE (I,T) (OR) OXIRANE (I,T)
Waste Code:	U117
Waste Description:	ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)
Waste Code:	U122
Waste Description:	FORMALDEHYDE
Waste Code:	U123
Waste Description:	FORMIC ACID (C,T)
Waste Code:	U124
Waste Description:	FURAN (I) (OR) FURFURAN (I)
Waste Code:	U130
Waste Description:	1,3-CYCLOPENTADIENE, 1,2,3,4,5,5-HEXACHLORO- (OR) HEXACHLOROCYCLOPENTADIENE
Waste Code:	U133
Waste Description:	HYDRAZINE (R,T)
Waste Code:	U134
Waste Description:	HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)
Waste Code:	U135
Waste Description:	HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S
Waste Code:	U138
Waste Description:	METHANE, IODO- (OR) METHYL IODIDE

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Waste Code:	U140
Waste Description:	1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)
Waste Code:	U144
Waste Description:	ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE
Waste Code:	U145
Waste Description:	LEAD PHOSPHATE (OR) PHOSPHORIC ACID, LEAD(2+) SALT (2:3)
Waste Code:	U146
Waste Description:	LEAD SUBACETATE (OR) LEAD, BIS(ACETATO-O)TETRAHYDROXYTRI-
Waste Code:	U149
Waste Description:	MALONONITRILE (OR) PROPANEDINITRILE
Waste Code:	U151
Waste Description:	MERCURY
Waste Code:	U154
Waste Description:	METHANOL (I) (OR) METHYL ALCOHOL (I)
Waste Code:	U161
Waste Description:	4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-
Waste Code:	U162
Waste Description:	2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)
Waste Code:	U165
Waste Description:	NAPHTHALENE
Waste Code:	U169
Waste Description:	BENZENE, NITRO- (OR) NITROBENZENE (I,T)
Waste Code:	U177
Waste Description:	N-NITROSO-N-METHYLUREA (OR) UREA, N-METHYL-N-NITROSO-
Waste Code:	U186
Waste Description:	1,3-PENTADIENE (I) (OR) 1-METHYLBUTADIENE (I)
Waste Code:	U188
Waste Description:	PHENOL
Waste Code:	U189
Waste Description:	PHOSPHORUS SULFIDE (R) (OR) SULFUR PHOSPHIDE (R)
Waste Code:	U196
Waste Description:	PYRIDINE
Waste Code:	U210
Waste Description:	ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE
Waste Code:	U211
Waste Description:	CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-
Waste Code:	U213

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Waste Description:	FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)
Waste Code:	U217
Waste Description:	NITRIC ACID, THALLIUM(1+) SALT (OR) THALLIUM(I) NITRATE
Waste Code:	U220
Waste Description:	BENZENE, METHYL- (OR) TOLUENE
Waste Code:	U226
Waste Description:	ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM
Waste Code:	U236
Waste Description:	2,7-NAPHTHALENEDISULFONIC ACID,3,3'-[(3,3'-DIMETHYL[1,1'-BIPHENYL]-4,4'-DIYL)BIS(AZO)BIS[5-AMINO-4-HYDROXY]-, TETRASODIUM SALT (OR) TRYSPAN BLUE
Waste Code:	U238
Waste Description:	CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)
Waste Code:	U239
Waste Description:	BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)
Waste Code:	U246
Waste Description:	CYANOGEN BROMIDE (CN)BR
Waste Code:	U271
Waste Description:	BENOMYL (OR) CARBAMIC ACID, [1-[(BUTYLAMINO)CARBONYL]-1H-BENZIMIDAZOL-2-YL]-, METHYL ESTER
Waste Code:	U278
Waste Description:	BENDIOCARB (OR) 1,3-BENZODIOXOL-4-OL, 2,2-DIMETHYL-, METHYL CARBAMATE
Waste Code:	U279
Waste Description:	U279
Waste Code:	U328
Waste Description:	BENZENAMINE, 2-METHYL- (OR) O-TOLUIDINE
Waste Code:	U353
Waste Description:	BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE
Waste Code:	U404
Waste Description:	U404
Waste Code:	U411
Waste Description:	U411

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	UC RIVERSIDE EHAS
Legal Status:	State
Date Became Current:	19900101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	CA 94607
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: U.C. REGENTS	
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN ST
Owner/Operator City,State,Zip:	OAKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA	
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN STREET
Owner/Operator City,State,Zip:	OAKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	REGENTSOFFICE@UCOP.EDU
Owner/Operator Indicator:	Operator
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA	
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN STREET
Owner/Operator City,State,Zip:	OKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	REGENTSOFFICE@UCOP.EDU
Owner/Operator Indicator:	Operator
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA	
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN STREET
Owner/Operator City,State,Zip:	OKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	REGENTSOFFICE@UCOP.EDU
Owner/Operator Indicator:	Owner
Owner/Operator Name: CHANCELLOR FRANCE A CORDOVA	
Legal Status:	State
Date Became Current:	20020701
Date Ended Current:	Not reported
Owner/Operator Address:	EH&S 900 N UNIVERSITY AVE

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Owner/Operator City,State,Zip: RIVERSIDE, CA 92521
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: REGENTS UC
Legal Status: Private
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: 900 UNIVERSITY AVENUE
Owner/Operator City,State,Zip: RIVERSIDE, CA 92521
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Legal Status: Private
Date Became Current: 19900101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: 1111 FRANKLIN STREET
Owner/Operator City,State,Zip: OAKLAND, CA 94607
Owner/Operator Telephone: 510-987-9200
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: REGENTSOFFICE@UCOP.EDU

Owner/Operator Indicator: Operator
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: 1111 FRANKLIN STREET
Owner/Operator City,State,Zip: OKLAND, CA 94607
Owner/Operator Telephone: 510-987-9200
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: REGENTSOFFICE@UCOP.EDU

Owner/Operator Indicator: Operator
Owner/Operator Name: REGENTS UC
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State
Date Became Current: 19480101
Date Ended Current: Not reported
Owner/Operator Address: 1111 FRANKLIN STREET
Owner/Operator City,State,Zip: OAKLAND, CA 94607
Owner/Operator Telephone: 510-987-9200
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 112
Owner/Operator City,State,Zip: CITY NOT REPORTED, CA 99999
Owner/Operator Telephone: 714-787-5529
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA
Legal Status: State
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 112
Owner/Operator City,State,Zip: RIVERSIDE, CA 92521
Owner/Operator Telephone: 714-787-5529
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Owner/Operator Indicator:	Operator
Owner/Operator Name: REGENTS, UC	
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: UC REGENTS	
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN ST
Owner/Operator City,State,Zip:	OAKLAND, CA 94607
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA	
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN STREET
Owner/Operator City,State,Zip:	OAKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	REGENTSOFFICE@UCOP.EDU
Owner/Operator Indicator:	Owner
Owner/Operator Name: CHANCELLOR FRANCE A. CORDOVA	
Legal Status:	State
Date Became Current:	20020701
Date Ended Current:	Not reported
Owner/Operator Address:	900 N UNIVERSITY AVE
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92521
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: U.C. REGENTS	
Legal Status:	State
Date Became Current:	19480101
Date Ended Current:	Not reported
Owner/Operator Address:	1111 FRANKLIN ST
Owner/Operator City,State,Zip:	OAKLAND, CA 94607
Owner/Operator Telephone:	510-987-9200
Owner/Operator Telephone Ext:	Not reported

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20100301
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130319
Handler Name: UNIVERISTY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160222
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180228
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20200228

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20220301
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 19960901
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800818
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900413
Handler Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920226
Handler Name: UNIVERSITY OF CALIFORNIA RIVER
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940331
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960401
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990304
Handler Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

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Database(s)

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EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Electronic Manifest Broker:	Not reported
Receive Date:	20001012
Handler Name:	UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20020226
Handler Name:	UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20040324
Handler Name:	UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20060227
Handler Name:	UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20080227
Handler Name:	UNIVERSITY OF CALIFORNIA RIVERSIDE
Federal Waste Generator Description:	Large Quantity Generator

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	111998
NAICS Description:	ALL OTHER MISCELLANEOUS CROP FARMING
NAICS Code:	61131
NAICS Description:	COLLEGES, UNIVERSITIES, AND PROFESSIONAL SCHOOLS
NAICS Code:	611310
NAICS Description:	COLLEGES, UNIVERSITIES, AND PROFESSIONAL SCHOOLS

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19900627
Actual Return to Compliance Date:	19910430
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	19901109
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	76800
Final Monetary Amount:	76800
Paid Amount:	Not reported

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EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	1
Final Amount:	76800
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20141113
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	20150112
Enforcement Identifier:	601
Date of Enforcement Action:	20141113
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

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EDR ID Number
 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-Contingency Plan and Emergency Procedures
Date Violation was Determined:	20101006
Actual Return to Compliance Date:	20101101
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	19880915
Actual Return to Compliance Date:	19890520
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19890520
Enforcement Identifier:	001
Date of Enforcement Action:	19890414
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

Map ID
 Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19880915
Actual Return to Compliance Date:	19890520
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19890520
Enforcement Identifier:	001
Date of Enforcement Action:	19890414
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20020730
Actual Return to Compliance Date:	20020730
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20020730
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	VGARC
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19890911
Actual Return to Compliance Date:	19910430
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19891213
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20020730
Actual Return to Compliance Date:	20020730
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20040930
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	RCRA9-2004-0004
Enforcement Attorney:	MOORE
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

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Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	NRUMR
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19910622
Actual Return to Compliance Date:	19911021
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19910910
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

Map ID
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Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19890911
Actual Return to Compliance Date:	19910430
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	19901109
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	76800
Final Monetary Amount:	76800
Paid Amount:	Not reported
Final Count:	1
Final Amount:	76800
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20101006
Actual Return to Compliance Date:	20101006
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

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Site

Database(s)

EDR ID Number
 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	19910622
Actual Return to Compliance Date:	19911021
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19910910
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19910622
Actual Return to Compliance Date:	19911021
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19910910
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19910622
Actual Return to Compliance Date:	19911021
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19910910
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20020730
Actual Return to Compliance Date:	20020730
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20020730
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	VGARC
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-General Facility Standards
Date Violation was Determined:	20101006
Actual Return to Compliance Date:	20101101
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20141113
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	20150112
Enforcement Identifier:	601
Date of Enforcement Action:	20141113
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20141113
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	20150112
Enforcement Identifier:	601
Date of Enforcement Action:	20141113
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20020730
Actual Return to Compliance Date:	20020730
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20040930
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	RCRA9-2004-0004
Enforcement Attorney:	MOORE
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: NRUMR
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19900627
Actual Return to Compliance Date:	19910430
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19900815
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19890911
Actual Return to Compliance Date:	19910430
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19891213
Enforcement Identifier:	003
Date of Enforcement Action:	19891113
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date: 19900627
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19910430
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20141119
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20040401
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier: NRUMR
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141113
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	20150112
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101006
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	DFERN
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101101
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880915
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890520
Scheduled Compliance Date:	19890520
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141120
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Evaluation Date:	20040401
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	NRUMR
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880915
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890520
Scheduled Compliance Date:	19890520
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020730
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	VGARC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020730
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890911
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910430
Scheduled Compliance Date:	19891213
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020730
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	VGARC

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EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020730
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910430
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911021
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890911
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910430
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101006
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	DFERN
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101006
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910430
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911021
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910430
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910430
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911021
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910430
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911021
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020730
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	VGARC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020730
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101006
Evaluation Responsible Agency:	EPA

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	DFERN
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101101
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141113
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	20150112
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141113
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	20150112
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020730
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	VGARC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020730
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141119
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900627
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910430
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050405
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	CMCDO
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890911
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910430
Scheduled Compliance Date:	19891213
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141120
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Evaluation Date:	20141113
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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Database(s)

EDR ID Number
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UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

RAATS:

Entry No: 1
Facility ID: CAD073134777
Type: Not reported
Docket No: RCRA 09-91-0001
Region: 09
Issue Date: 05/01/1991
Final Date: 11/09/1990
Status: Consent Agreement/Final Order
Additional: Not reported
Action ID: 530
Action: 3008 (A)
Violation No: Not reported
Viol No Cited: 1 262.11
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: 6,500.00
Final Penalty: 76,800.00
Total Prop. Penalty: 76,800.00
Comments: PROPOSED PENALTIES LEVIED PURSUANT TO NEW RCRA PENALTY POLICY OF 29.OCTOBER 1990.

Entry No: 1
Facility ID: CAD073134777
Type: Not reported
Docket No: RCRA 09-91-0001
Region: 09
Issue Date: 05/01/1991
Final Date: 11/09/1990
Status: Consent Agreement/Final Order
Additional: Not reported
Action ID: 530
Action: 3008 (A)
Violation No: Not reported
Viol No Cited: 2 265.174
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: 4,500.00
Final Penalty: 76,800.00
Total Prop. Penalty: 76,800.00
Comments: PROPOSED PENALTIES LEVIED PURSUANT TO NEW RCRA PENALTY POLICY OF 29.OCTOBER 1990.

Entry No: 1
Facility ID: CAD073134777
Type: Not reported
Docket No: RCRA 09-91-0001
Region: 09
Issue Date: 05/01/1991
Final Date: 11/09/1990
Status: Consent Agreement/Final Order
Additional: Not reported
Action ID: 530
Action: 3008 (A)
Violation No: Not reported
Viol No Cited: 3 265.16(D)
Total No Cited: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Reg Type: CFR
Prop. Penalty: 19,000.00
Final Penalty: 76,800.00
Total Prop. Penalty: 76,800.00
Comments: PROPOSED PENALTIES LEVIED PURSUANT TO NEW RCRA PENALTY POLICY OF 29.OCTOBER 1990.

Entry No: 1
Facility ID: CAD073134777
Type: Not reported
Docket No: RCRA 09-91-0001
Region: 09
Issue Date: 05/01/1991
Final Date: 11/09/1990
Status: Consent Agreement/Final Order
Additional: Not reported
Action ID: 530
Action: 3008 (A)
Violation No: Not reported
Viol No Cited: 4 265.31
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: 9,500.00
Final Penalty: 76,800.00
Total Prop. Penalty: 76,800.00
Comments: PROPOSED PENALTIES LEVIED PURSUANT TO NEW RCRA PENALTY POLICY OF 29.OCTOBER 1990.

Entry No: 1
Facility ID: CAD073134777
Type: Not reported
Docket No: RCRA 09-91-0001
Region: 09
Issue Date: 05/01/1991
Final Date: 11/09/1990
Status: Consent Agreement/Final Order
Additional: Not reported
Action ID: 530
Action: 3008 (A)
Violation No: Not reported
Viol No Cited: 5 265.37(A)(4)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: 19,000.00
Final Penalty: 76,800.00
Total Prop. Penalty: 76,800.00
Comments: PROPOSED PENALTIES LEVIED PURSUANT TO NEW RCRA PENALTY POLICY OF 29.OCTOBER 1990.

Entry No: 1
Facility ID: CAD073134777
Type: Not reported
Docket No: RCRA 09-91-0001
Region: 09
Issue Date: 05/01/1991
Final Date: 11/09/1990
Status: Consent Agreement/Final Order

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CA RIVERSIDE (Continued)

1000431600

Additional: Not reported
Action ID: 530
Action: 3008 (A)
Violation No: Not reported
Viol No Cited: 6 265.52(D)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: 18,300.00
Final Penalty: 76,800.00
Total Prop. Penalty: 76,800.00
Comments: PROPOSED PENALTIES LEVIED PURSUANT TO NEW RCRA PENALTY POLICY OF 29.OCTOBER 1990.

**A10
Target
Property**

**900 UNIVERSITY AVE
RIVERSIDE, CA 92521**

**ERNS 98420547
N/A**

Site 10 of 31 in cluster A

**Actual:
1031 ft.**

Incident Commons:
NRC Report #: 420547
Description of Incident: SOURCE: TENNIS COURT RESURFACE MATERIAL/CAUSE: HEAVY RAIN WASHED THE SURFACE TOP MATERIAL ON THE TENNIS COURT INTO A SMALL GULLY.
Type of Incident: FIXED
Incident Cause: NATURAL PHENOMENON
Incident Date Time: 1998-01-09 16:00:00
Incident DTG: OCCURRED
Incident Location: Not reported
Location Address: 900 UNIVERSITY AVE
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: RIVERSIDE
Location State: CA
Location County: RIVERSIDE
Location Zip: 92521
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Not reported
Incidents:
NRC Report #: 420547
Aircraft Type: UNKNOWN
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98420547

Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSF Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98420547

Transit Bus Flag: Not reported
CR Begin Date: Not reported
CR End Date: Not reported
CR Change Date: Not reported
FBI Contact: Not reported
FBI Contact Date Time: Not reported
Sub Part C Testing Req: XXX
Conductor Testing: Not reported
Engineer Testing: Not reported
Trainman Testing: Not reported
Yard Foreman Testing: Not reported
RCL Operator Testing: Not reported
Brakeman Testing: Not reported
Train Dispatcher Testing: Not reported
Signalman Testing: Not reported
Other Employee Testing: Not reported
Unknown Testing: Not reported
Passenger Handling: Not reported
Passenger Route: XXX
Passenger Delay: XXX

Incident Details:

NRC Report #: 420547
Fire Involved: N
Fire Extinguished: U
Any Evacuations: N
Number Evacuated: Not reported
Who Evacuated: Not reported
Radius of Evacuation: Not reported
Any Injuries: U
Number Injured: Not reported
Number Hospitalized: Not reported
Any Fatalities: U
Number Fatalities: Not reported
Any Damages: N
Damage Amount: Not reported
Air Corridor Closed: N
Air Corridor Desc: Not reported
Air Closure Time: Not reported
Waterway Closed: N
Waterway Desc: Not reported
Waterway Closure Time: Not reported
Road Closed: N
Road Desc: Not reported
Road Closure Time: Not reported
Closure Direction: Not reported
Major Artery: N
Track Closed: N
Track Desc: Not reported
Track Closure Time: Not reported
Media Interest: Not reported
Medium Desc: WATER
Additional Medium Info: STORM DRAIN
Body of Water: Not reported
Tributary of: Not reported
Release Secured: U
Estimated Duration of Release: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98420547

Release rate: Not reported
Desc Remedial Action: SANDS BAGS AND ABSORBENT PADS WERE USED TO CLEAN UP THE SPILL.
State Agency on Scene: Not reported
State Agency Report Number: Not reported
Other Agency Notified: Not reported
Weather Conditions: Not reported
Air Temperature: Not reported
Wind Speed: Not reported
Wind Direction: Not reported
Water Supply Contaminated: U
Sheen Size: Not reported
Sheen Color: Not reported
Direction of Sheen Travel: Not reported
Sheen Odor Description: Not reported
Wave Condition: Not reported
Current Speed: Not reported
Current Direction: Not reported
Water Temperature: Not reported
Track Close Dir: Not reported
Empl Fatality: Not reported
Pass Fatality: Not reported
Community Impact: N
Wind Speed Unit: Not reported
Employee Injuries: Not reported
Passenger Injuries: Not reported
Occupant Fatality: Not reported
Current Speed Unit: Not reported
Road Closure Units: Not reported
Track Closure Units: Not reported
Sheen Size Units: Not reported
Additional Info: CALLER WILL NOTIFY ALL REQUIRED STATE AGENCIES.
State Agency Notified: Not reported
Federal Agency Notified: Not reported
nearest River Mile Marker: Not reported
Sheen Size Length: Not reported
Sheen Size Length Units: Not reported
Sheen Size Width: Not reported
Sheen Size Width Units: Not reported
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: UNK

Calls:

NRC Report #: 420547
Site ID: 98420547
Date Time Received: 1998-01-20 15:21:42
Date Time Complete: 1998-01-20 15:33:14
Call Type: INC
Responsible Company: UNV OF CAL AT RIVERSIDE
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: RIVERSIDE
Responsible State: CA
Responsible Zip: 92521
On Behalf: Not reported
Source: UNAVAILABLE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98420547

Material Involved:
NRC Report #: 420547
Chris Code: NCC
Case Number: Not reported
UN Number: Not reported
Amount of Material: 2
Unit of Measure: POUND(S)
Name of Material: DECO COLOR (4.5% ABESTOS FIBERS)
If Reached Water: YES
Amount in Water: 2
Unit of Measure Reach Water: POUND(S)

A11
Target
Property **T-MOBILE WEST CORPORATION IE05098A**
900 UNIVERSITY AVE
RIVERSIDE, CA 92521

FINDS **1023369008**
N/A

Site 11 of 31 in cluster A

Actual:
1031 ft. **FINDS:**
Registry ID: 110066667379

Click Here for FRS Facility Detail Report:
Environmental Interest/Information System:
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A12
Target
Property **900 UNIVERSITY AVE, UNIVERSITY CA RIVERSIDE, CHEMICAL SCIENC**
RIVERSIDE, CA 92521

CHMIRS **S127087376**
N/A

Site 12 of 31 in cluster A

Actual:
1031 ft. **CHMIRS:**
Name: Not reported
Address: 900 UNIVERSITY AVE, UNIVERSITY CA RIVERSIDE, CHEMICAL SCIENCE BLDG
City,State,Zip: RIVERSIDE, CA 92521
OES Incident Number: 20-6373
OES notification: 11/15/2020
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S127087376

Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	School
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	VAPOR
Measure:	Liters(s)
Other:	Not reported
Date/Time:	201
Year:	2020
Agency:	Riverside City FD
Incident Date:	11/15/2020
Admin Agency:	City of Riverside Fire Marshal
Amount:	Not reported
Contained:	Stopped,Contained
Site Type:	Not reported
E Date:	Not reported
Substance:	Nitrogen - Liquid Type, refrigerant
Quantity Released:	180
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	A refrigerant unit relief valve failed causing the release, material flowed into the atmosphere inside a structure, FD responded and removed the unit from the structure and vented the remaining material outside, RP and responsible Party handled the containment and no clean up required.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A13
Target
Property
UCR MAIN CAMPUS
900 UNIVERSITY AVE
RIVERSIDE, CA 92521

ICIS **1016115960**
FINDS **N/A**
ECHO

Site 13 of 31 in cluster A

Actual:
1031 ft.

ICIS:
Enforcement Action ID: 09-2004-0368
FRS ID: 110000609761
Action Name: Regents of the University of California
Facility Name: UCR MAIN CAMPUS
Facility Address: 900 UNIVERSITY AVE
RIVERSIDE, CA 92521
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: RIVERSIDE
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 3008A
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.975416
Longitude in Decimal Degrees: -117.324873
Permit Type Desc: Not reported
Program System Acronym: 6683930
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Address: 900 UNIVERSITY AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 8221

Facility Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Address: 900 UNIVERSITY AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 8221

Facility Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Address: 900 UNIVERSITY AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 8221

Facility Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Address: 900 UNIVERSITY AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 8221

Facility Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Address: 900 UNIVERSITY AVENUE
Tribal Indicator: N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UCR MAIN CAMPUS (Continued)

1016115960

Fed Facility: No
NAIC Code: Not reported
SIC Code: 8221

Facility Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Address: 900 UNIVERSITY AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 8221

Facility Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Address: 900 UNIVERSITY AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 8221

FINDS:

Registry ID: 110000609761

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

AIR EMISSIONS CLASSIFICATION UNKNOWN
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1016115960
Registry ID: 110000609761
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110000609761>

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UCR MAIN CAMPUS (Continued)

1016115960

Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
 Address: 900 UNIVERSITY AVE
 City,State,Zip: RIVERSIDE, CA 92507

A14 **UNIV CAL, RIVERSIDE**
Target **3401 WATKINS DR**
Property **RIVERSIDE, CA 92521**

Site 14 of 31 in cluster A

Actual:
1031 ft.

LUST **S101619625**
CERS HAZ WASTE **N/A**
SWEEPS UST
CERS TANKS
CA FID UST
Cortese
DRYCLEANERS
EMI
HIST CORTESE
NPDES
CIWQS
CERS

LUST REG 8:

Name: U C RIVERSIDE STEAM PLANT
 Address: 3401 WATKINS DR
 City: RIVERSIDE
 Region: 8
 County: Riverside
 Regional Board: Santa Ana Region
 Facility Status: Pollution Characterization
 Case Number: 083302681T
 Local Case Num: 950454
 Case Type: Soil only
 Substance: Heater Fuel
 Qty Leaked: Not reported
 Abate Method: Not reported
 Cross Street: Not reported
 Enf Type: Not reported
 Funding: Not reported
 How Discovered: Tank Closure
 How Stopped: Not reported
 Leak Cause: UNK
 Leak Source: UNK
 Global ID: T0606500425
 How Stopped Date: 4/4/1995
 Enter Date: 9/20/1995
 Date Confirmation of Leak Began: Not reported
 Date Preliminary Assessment Began: 8/23/1994
 Discover Date: 5/23/1995
 Enforcement Date: Not reported
 Close Date: Not reported
 Date Prelim Assessment Workplan Submitted: Not reported
 Date Pollution Characterization Began: 7/11/1995
 Date Remediation Plan Submitted: Not reported
 Date Remedial Action Underway: Not reported
 Date Post Remedial Action Monitoring: Not reported
 Enter Date: 9/20/1995
 GW Qualifies: Not reported
 Soil Qualifies: Not reported
 Operator: Not reported
 Facility Contact: Not reported
 Interim: Not reported
 Oversight Program: LUST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Latitude: 33.9803827
Longitude: -117.3227964
MTBE Date: Not reported
Max MTBE GW: Not reported
MTBE Concentration: 0
Max MTBE Soil: Not reported
MTBE Fuel: 0
MTBE Tested: Not Required to be Tested.
MTBE Class: *
Staff: TME
Staff Initials: UNK
Lead Agency: Local Agency
Local Agency: 33000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

CERS HAZ WASTE:

Name: UCR
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 174264
CERS ID: 10525672
CERS Description: Hazardous Waste Generator

Name: UCR
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 174264
CERS ID: 10525672
CERS Description: RCRA LQ HW Generator

SWEEPS UST:

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 3SP
SWRCB Tank Id: 33-000-019667-000008
Tank Status: A
Capacity: 10000
Active Date: 11-19-92
Tank Use: PETROLEUM
STG: P
Content: FUEL OIL
Number Of Tanks: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 4SP
SWRCB Tank Id: 33-000-019667-000009
Tank Status: A
Capacity: 10000
Active Date: 11-19-92
Tank Use: PETROLEUM
STG: P
Content: FUEL OIL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 5SP
SWRCB Tank Id: 33-000-019667-000010
Tank Status: A
Capacity: 20000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 6SP
SWRCB Tank Id: 33-000-019667-000011
Tank Status: A
Capacity: 20000
Active Date: 06-25-90
Tank Use: M.V. FUEL
STG: P

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Content: DIESEL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 7SP
SWRCB Tank Id: 33-000-019667-000012
Tank Status: A
Capacity: 20000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 1GR
SWRCB Tank Id: 33-000-019667-000013
Tank Status: A
Capacity: 1000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: LOTHIAN
SWRCB Tank Id: 33-000-019667-000014
Tank Status: A
Capacity: 7500

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: A&1
SWRCB Tank Id: 33-000-019667-000015
Tank Status: A
Capacity: 7500
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/TRANSPORTATION SERVICES
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 12224
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: T-1
SWRCB Tank Id: 33-000-012224-000001
Tank Status: A
Capacity: 500
Active Date: 11-19-92
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: 3

Name: UC RIVERSIDE/TRANSPORTATION SERVICES
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 12224
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: T-2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

SWRCB Tank Id: 33-000-012224-000002
Tank Status: A
Capacity: 6000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Name: UC RIVERSIDE/TRANSPORTATION SERVICES
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 12224
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: T-3
SWRCB Tank Id: 33-000-012224-000003
Tank Status: A
Capacity: 10000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: B-1
SWRCB Tank Id: 33-000-019667-000001
Tank Status: A
Capacity: 20000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 15

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: B-2
SWRCB Tank Id: 33-000-019667-000002
Tank Status: A
Capacity: 20000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: B-3
SWRCB Tank Id: 33-000-019667-000003
Tank Status: A
Capacity: 20000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: B-4
SWRCB Tank Id: 33-000-019667-000004
Tank Status: A
Capacity: 20000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: B-5
SWRCB Tank Id: 33-000-019667-000005
Tank Status: A
Capacity: 20000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 1SP
SWRCB Tank Id: 33-000-019667-000006
Tank Status: A
Capacity: 10000
Active Date: 11-19-92
Tank Use: PETROLEUM
STG: P
Content: FUEL OIL
Number Of Tanks: Not reported

Name: UC RIVERSIDE/STEAM GENERATION FACILITY
Address: 3401 WATKINS DR
City: RIVERSIDE
Status: Active
Comp Number: 19667
Number: 4
Board Of Equalization: 44-017955
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 2SP
SWRCB Tank Id: 33-000-019667-000007
Tank Status: A
Capacity: 10000
Active Date: 11-19-92
Tank Use: PETROLEUM
STG: P
Content: FUEL OIL
Number Of Tanks: Not reported

CERS TANKS:

Name: UCR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 174264
CERS ID: 10525672
CERS Description: Aboveground Petroleum Storage

CA FID UST:

Facility ID: 33006882
Regulated By: UTNKA
Regulated ID: 00012224
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7147871677
Mail To: Not reported
Mailing Address: 3401 WATKINS DR
Mailing Address 2: Not reported
Mailing City,St,Zip: RIVERSIDE 92521
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Facility ID: 33006882
Regulated By: UTNKA
Regulated ID: 00019667
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7147874677
Mail To: Not reported
Mailing Address: 3401 WATKINS DR
Mailing Address 2: Not reported
Mailing City,St,Zip: RIVERSIDE 92521
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CORTESE:

Name: U C RIVERSIDE STEAM PLANT
Address: 3401 WATKINS DR
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500425
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

DRYCLEAN SOUTH COAST:

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Facility ID: 49387
Application Number: 456732
Permit Number: Not reported
Status: A
Representative Name: AMANDA GREY
Representative Telephone: 951 7874724
Permit Status: Not reported
BCAT Number: 000233
BCAT Description: DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 470.18499756
UTM North: 3759.8520508
Application Date: 05/05/2006
PO Issue Date: 12/31/9999
NAICS Code: 611310
SIC Code: 8221

EMI:

Name: UNIV CAL, RIVERSIDE
Address: 3401 WATKINS DR
City,State,Zip: RIVERSIDE, CA 92521
Year: 1987
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Name: UNIV CAL, RIVERSIDE
Address: 3401 WATKINS DR
City,State,Zip: RIVERSIDE, CA 92521
Year: 2002
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4
Reactive Organic Gases Tons/Yr: 3
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 5
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Name: UNIV CAL, RIVERSIDE
Address: 3401 WATKINS DR
City,State,Zip: RIVERSIDE, CA 92521
Year: 2003
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4
Reactive Organic Gases Tons/Yr: 3
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 5
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Name: UNIV CAL, RIVERSIDE
Address: 3401 WATKINS DR
City,State,Zip: RIVERSIDE, CA 92521
Year: 2004
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3.842257
Reactive Organic Gases Tons/Yr: 2.71
Carbon Monoxide Emissions Tons/Yr: 6.89298
NOX - Oxides of Nitrogen Tons/Yr: 5.1586
SOX - Oxides of Sulphur Tons/Yr: 0.0995372

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Particulate Matter Tons/Yr: 0.562318
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.57

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA
Year: 2005
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.65392
Reactive Organic Gases Tons/Yr: 1.838204407
Carbon Monoxide Emissions Tons/Yr: 1.86405
NOX - Oxides of Nitrogen Tons/Yr: 5.9427
SOX - Oxides of Sulphur Tons/Yr: .09563
Particulate Matter Tons/Yr: .596875
Part. Matter 10 Micrometers and Smlr Tons/Yr:.5943166

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA
Year: 2006
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.809168916284990835
Reactive Organic Gases Tons/Yr: 1.684
Carbon Monoxide Emissions Tons/Yr: 2.082
NOX - Oxides of Nitrogen Tons/Yr: 6.365
SOX - Oxides of Sulphur Tons/Yr: .102
Particulate Matter Tons/Yr: .62
Part. Matter 10 Micrometers and Smlr Tons/Yr:.61932

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2007
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.748432597286890822
Reactive Organic Gases Tons/Yr: 1.684

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Carbon Monoxide Emissions Tons/Yr: 2.082
NOX - Oxides of Nitrogen Tons/Yr: 6.365
SOX - Oxides of Sulphur Tons/Yr: .102
Particulate Matter Tons/Yr: .62
Part. Matter 10 Micrometers and Smlr Tons/Yr: 61932

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2008
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.829514992342626977
Reactive Organic Gases Tons/Yr: 1.2968825
Carbon Monoxide Emissions Tons/Yr: 15.26605
NOX - Oxides of Nitrogen Tons/Yr: 6.62174
SOX - Oxides of Sulphur Tons/Yr: .09942688
Particulate Matter Tons/Yr: 1.3755673
Part. Matter 10 Micrometers and Smlr Tons/Yr: 1.3755671122

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2012
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.8189939687
Reactive Organic Gases Tons/Yr: 1.44203
Carbon Monoxide Emissions Tons/Yr: 15.71327
NOX - Oxides of Nitrogen Tons/Yr: 4.58808
SOX - Oxides of Sulphur Tons/Yr: 0.14289936
Particulate Matter Tons/Yr: 1.4732
Part. Matter 10 Micrometers and Smlr Tons/Yr: 1.47126674

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2013
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3.3412029552
Reactive Organic Gases Tons/Yr: 1.78898741
Carbon Monoxide Emissions Tons/Yr: 17.04217
NOX - Oxides of Nitrogen Tons/Yr: 9.71989
SOX - Oxides of Sulphur Tons/Yr: 1.468659
Particulate Matter Tons/Yr: 4.45306
Part. Matter 10 Micrometers and Smlr Tons/Yr:3.61578152

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2014
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4.3620291366
Reactive Organic Gases Tons/Yr: 2.901415
Carbon Monoxide Emissions Tons/Yr: 13.52861
NOX - Oxides of Nitrogen Tons/Yr: 3.92417
SOX - Oxides of Sulphur Tons/Yr: 0.095935
Particulate Matter Tons/Yr: 6.14088
Part. Matter 10 Micrometers and Smlr Tons/Yr:4.67543804

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2016
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.3554000814
Reactive Organic Gases Tons/Yr: 1.13486446
Carbon Monoxide Emissions Tons/Yr: 14.198946
NOX - Oxides of Nitrogen Tons/Yr: 3.435656
SOX - Oxides of Sulphur Tons/Yr: 0.0803646
Particulate Matter Tons/Yr: 5.23072598
Part. Matter 10 Micrometers and Smlr Tons/Yr:4.0556095941

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2017
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.3117252747
Reactive Organic Gases Tons/Yr: 1.10336168
Carbon Monoxide Emissions Tons/Yr: 14.459248
NOX - Oxides of Nitrogen Tons/Yr: 2.066382
SOX - Oxides of Sulphur Tons/Yr: 0.097683477
Particulate Matter Tons/Yr: 5.12115394
Part. Matter 10 Micrometers and Smlr Tons/Yr:3.9734971024

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2018
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.5301402982
Reactive Organic Gases Tons/Yr: 1.239573683
Carbon Monoxide Emissions Tons/Yr: 15.321181515
NOX - Oxides of Nitrogen Tons/Yr: 3.30862992
SOX - Oxides of Sulphur Tons/Yr: 0.107638014
Particulate Matter Tons/Yr: 4.151127275
Part. Matter 10 Micrometers and Smlr Tons/Yr:3.3510081394

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2019
County Code: 33
Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3.5714430656
Reactive Organic Gases Tons/Yr: 1.8020776738
Carbon Monoxide Emissions Tons/Yr: 16.645530685
NOX - Oxides of Nitrogen Tons/Yr: 5.096852875
SOX - Oxides of Sulphur Tons/Yr: 0.1156421445
Particulate Matter Tons/Yr: 4.34419473
Part. Matter 10 Micrometers and Smlr Tons/Yr:3.5451087166

Name: UNIV CAL, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Year: 2020
County Code: 33

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Air Basin: SC
Facility ID: 49387
Air District Name: SC
SIC Code: 8221
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.3441021436
Reactive Organic Gases Tons/Yr: 1.12956461
Carbon Monoxide Emissions Tons/Yr: 14.890331
NOX - Oxides of Nitrogen Tons/Yr: 2.82654
SOX - Oxides of Sulphur Tons/Yr: 0.10048592
Particulate Matter Tons/Yr: 4.0010907
Part. Matter 10 Micrometers and Smllr Tons/Yr:3.2203624278

HIST CORTESE:

edr_fname: U C RIVERSIDE FLEET SERVI
edr_fadd1: 3401
City,State,Zip: RIVERSIDE, CA 92521
Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 083303140T

edr_fname: PLYMOUTH TOWERS
edr_fadd1: 3401
City,State,Zip: RIVERSIDE, CA 92521
Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 083303638T

edr_fname: U C RIVERSIDE STEAM PLANT
edr_fadd1: 3401
City,State,Zip: RIVERSIDE, CA 92521
Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 083302681T

NPDES:

Name: SCHOOL OF MEDICINE EDUCATION BUILDING II
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92521
Facility Status: Active
NPDES Number: CAS000002
Region: 8
Agency Number: 0
Regulatory Measure ID: 535103
Place ID: Not reported
Order Number: 2009-0009-DWQ
WDID: 8 33C394297
Regulatory Measure Type: Enrollee
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 06/30/2021

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 900 University Avenue
Discharge Name: University of California Riverside
Discharge City: Riverside
Discharge State: California
Discharge Zip: 92507
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

Name: SCHOOL OF MEDICINE EDUCATION BUILDING II
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92521
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 8 33C394297
Regulatory Measure Type: Construction
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Active
Status Date: 06/30/2021
Operator Name: University of California Riverside
Operator Address: 900 University Avenue
Operator City: Riverside
Operator State: California
Operator Zip: 92507

CIWQS:
Name: SCHOOL OF MEDICINE EDUCATION BUILDING II
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92521
Agency: University of California Riverside
Agency Address: 900 University Avenue, Riverside, CA 92507
Place/Project Type: Construction - Other: School
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water construction

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Order Number: 2009-0009-DWQ
WDID: 8 33C394297
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 06/30/2021
Termination Date: Not reported
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.97321
Longitude: -117.32441

CERS:

Name: SCHOOL OF MEDICINE EDUCATION BUILDING II
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92521
Site ID: 588625
CERS ID: 893178
CERS Description: Construction Storm Water

Affiliation:

Affiliation Type Desc: Owner/Operator
Entity Name: University of California Riverside
Entity Title: Operator
Affiliation Address: 900 University Avenue
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92507
Affiliation Phone: ,

Name: UCR
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 174264
CERS ID: 10525672
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to regularly test liquid level sensing devices to ensure proper operation.
Violation Notes: Returned to compliance on 08/13/2020.
Violation Division: Riverside City Fire Department
Violation Program: APSA
Violation Source: CERS,
Site ID: 174264
Site Name: UCR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Violation Date: 05-21-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 11/06/2020. No site map completed/submitted/or site map submitted has missing components. Update map and upload into CERS. Add the following locations: steam plant.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104E - Pesticide storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The pesticide storage area(s) signage was out of date.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 04-04-2017
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 06/08/2017.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 11/06/2020. The chemical inventory has not been submitted accurately. 24 buildings within the UCR Campus need to have chemical inventories updated or added.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Violation Date: 08-13-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 09/08/2020. 104D - Emergency equipment properly posted. [RMC 16.32.020; CFC, Section 5001.5.1(2)] - Emergency equipment such as eye wash stations were not properly posted or working in steam plant. To have emergency equipment available and working.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 11/06/2020. The business plan update within 30 days has not been completed as required due to the change of chemical inventories in multiple buildings and non-working eye wash stations.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. Hazmat storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The hazmat storage area(s) signage was obscured or removed. Post NFPA and all required hazmat signage at all required locations. The hazmat storage areas signage was not in place.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 03-10-2022
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 03/18/2022.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 09-08-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 11/06/2020. The chemical inventory has not been submitted accurately. 24 buildings within the UCR Campus need to have chemical inventories updated or added.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to comply with one or more of the following requirements: 1. Have record of inspections and tests, including integrity tests, signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and tests, including integrity tests, for at least three years. 3. Keep comparison records.
Violation Notes: Returned to compliance on 09/08/2020.

Violation Division: Riverside City Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 11-06-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104C - Hazmat storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The hazmat storage area(s) signage was obscured or removed.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104A - NFPA 704 sign(s) properly posted. [RMC 16.32.020; CFC, Section 5003.5] - No NFPA 704 is posted. Provide the required NFPA 704 signage in the following locations: front of business/rear of business/hazmat area/on stationary

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

containers/aboveground tanks/entrances to locations where hazardous materials are stored, dispensed, used or handled. The exterior signage to represent all chemicals at the facility; and the interior signage is to represent the chemical areas.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/17/2021. Building where pesticides, petroleum, or fertilizers are stored are posted with warning signs. [19 CCR 2733] - No required warnings signs were seen for pesticides/petroleum/ fertilizers storage area(s) located at agricultural operations building. To provide the required warning signs in this area.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)

Violation Description: Failure to comply with one or more of the following requirements: 1. Have record of inspections and tests, including integrity tests, signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and tests, including integrity tests, for at least three years. 3. Keep comparison records.

Violation Notes: Returned to compliance on 09/08/2020.

Violation Division: Riverside City Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: HSC 6.95 25507.1(a)(2) - California Health and Safety Code, Chapter 6.95, Section(s) 25507.1(a)(2)

Violation Description: Failure of agricultural handler to post warning signs on buildings where pesticides, petroleum, or fertilizers are stored, that are visible from any direction of probable approach, contain all required information, and are in appropriate language.

Violation Notes: Returned to compliance on 02/17/2021. No required warnings signs were seen for pesticides/petroleum/ fertilizers storage area(s) located at agricultural operations building. To provide the required warning signs in this area.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Site Name: UCR
Violation Date: 05-21-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 11/06/2020. The chemical inventory has not been submitted accurately. 24 buildings within the UCR Campus need to have chemical inventories updated or added.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 09-08-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 11/06/2020. No site map completed/submitted/or site map submitted has missing components. Update map and upload into CERS. Add the following locations: steam plant.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 11/06/2020. No site map completed/submitted/or site map submitted has missing components. Update map and upload into CERS. Add the following locations: steam plant.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/06/2020. Warning signs contain all required information. [19 CCR 2734(b)] - The required warning sign posted did not contain the required information.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Site ID: 174264
Site Name: UCR
Violation Date: 11-06-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104A - NFPA 704 sign(s) properly posted. [RMC 16.32.020; CFC, Section 5003.5] - No NFPA 704 is posted. Provide the required NFPA 704 signage in the following locations: front of business/rear of business/hazmat area/on stationary containers/aboveground tanks/entrances to locations where hazardous materials are stored, dispensed, used or handled. The exterior signage to represent all chemicals at the facility; and the interior signage is to represent the chemical areas.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 04-04-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 06/08/2017.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 11-06-2020
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/17/2021. Building where pesticides, petroleum, or fertilizers are stored are posted with warning signs. [19 CCR 2733] - No required warnings signs were seen for pesticides/petroleum/ fertilizers storage area(s) located at agricultural operations building. To provide the required warning signs in this area.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 08/13/2020. Container(s) properly labeled. [RMC 16.32.020; CFC, Section 5003.6] - Some chemical container(s) were missing the required hazmat signage.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: HSC 6.95 25507.1(a)(2) - California Health and Safety Code, Chapter 6.95, Section(s) 25507.1(a)(2)
Violation Description: Failure of agricultural handler to post warning signs on buildings where pesticides, petroleum, or fertilizers are stored, that are visible from any direction of probable approach, contain all required information, and are in appropriate language.
Violation Notes: Returned to compliance on 11/06/2020. No required warnings signs were seen for pesticides/petroleum/ fertilizers storage area(s) located at agricultural operations building. To provide the required warning signs in this area.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 11/06/2020. 105A - Materials stored to minimize the possibility of release. [RMC 16.32.020; CFC, Section 5004.2] - No spill control and secondary containment was observed per CFC requirement in 5 locations. Materials need to be stored to minimize the possibility of release.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 04-04-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 06/08/2017.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 11-13-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 01/09/2015.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Violation Division: Riverside County Department of Env Health
Violation Program: HWLQG
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 08/13/2020. Container(s) properly labeled. [RMC 16.32.020; CFC, Section 5003.6] - Some chemical container(s) were missing the required hazmat signage.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 09-08-2020
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/04/2021. Building where pesticides, petroleum, or fertilizers are stored are posted with warning signs. [19 CCR 2733] - No required warnings signs were seen for pesticides/petroleum/ fertilizers storage area(s) located at agricultural operations building. To provide the required warning signs in this area.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 02-17-2021
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104A - NFPA 704 sign(s) properly posted. [RMC 16.32.020; CFC, Section 5003.5] - No NFPA 704 is posted. Provide the required NFPA 704 signage in the following locations: front of business/rear of business/hazmat area/on stationary containers/aboveground tanks/entrances to locations where hazardous materials are stored, dispensed, used or handled. The exterior signage to represent all chemicals at the facility; and the interior signage is to represent the chemical areas.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 09-08-2020
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Violation Notes: one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan. Returned to compliance on 11/06/2020. The business plan update within 30 days has not been completed as required due to the change of chemical inventories in multiple buildings and non-working eye wash stations.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance

Violation Notes: Returned to compliance on 11/06/2020. 105A - Materials stored to minimize the possibility of release. [RMC 16.32.020; CFC, Section 5004.2] - No spill control and secondary containment was observed per CFC requirement in 5 locations. Materials need to be stored to minimize the possibility of release.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 11-13-2014
Citation: 22 CCR 15 66265.32 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.32
Violation Description: Failure of the facility to maintain the following emergency equipment or equivalents: 1) An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel; 2) A device, such as a telephone (immediately available at the scene of Operations/ Maintenance) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams; 3) Portable fire extinguishers, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals), spill control equipment, and decontamination equipment; and 4) Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems.

Violation Notes: Returned to compliance on 01/09/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: HWLQG
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 11-06-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104E - Pesticide storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The pesticide storage area(s) signage was out of date.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 08/13/2020. No Emergency Response Plan and Procedures have been completed accurately. Complete the requirement updating the eye wash station at the steam plant and submit in CERS.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 11/06/2020. Site map submitted has missing components. Update map and upload into CERS. Add the following locations: steam plant.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 08/13/2020. No Emergency Response Plan and Procedures have been completed accurately. Complete the requirement updating the eye wash station at the steam plant and submit in CERS.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Violation Description: Failure to regularly inspect aboveground valves, piping, and appurtenances.
Violation Notes: Returned to compliance on 08/13/2020.
Violation Division: Riverside City Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 02-17-2021
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104E - Pesticide storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The pesticide storage area(s) signage was out of date.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. Pesticide storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The pesticide storage area(s) signage was out of date.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 04-04-2017
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 06/08/2017.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site

Map ID
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UNIV CAL, RIVERSIDE (Continued)

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Violation Notes: at or above reportable quantities.
Returned to compliance on 11/06/2020. The chemical inventory has not been submitted accurately. 24 buildings within the UCR Campus need to have chemical inventories updated or added.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 04-04-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.

Violation Notes: Returned to compliance on 06/08/2017.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance

Violation Notes: Returned to compliance on 09/08/2020. Emergency equipment properly posted. [RMC 16.32.020; CFC, Section 5001.5.1(2)] - Emergency equipment such as eye wash stations were not properly posted or working in steam plant. To have emergency equipment available and working.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 09-08-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance

Violation Notes: Returned to compliance on 11/06/2020. 105A - Materials stored to minimize the possibility of release. [RMC 16.32.020; CFC, Section 5004.2] - No spill control and secondary containment was observed per CFC requirement in 5 locations. Materials need to be stored to minimize the possibility of release.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 11-13-2014
Citation: 22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31

Violation Description: Failure to maintain and operate the facility to minimize the

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Elevation

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possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment.

Violation Notes: Returned to compliance on 01/09/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: HWLQG
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 09-08-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance

Violation Notes: Returned to compliance on 05/04/2021. 104E - Pesticide storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The pesticide storage area(s) signage was out of date.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)

Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.

Violation Notes: Returned to compliance on 11/06/2020. The business plan update within 30 days has not been completed as required due to the change of chemical inventories in multiple buildings and non-working eye wash stations.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 02-17-2021
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance

Violation Notes: Returned to compliance on 05/04/2021. 104C - Hazmat storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The hazmat storage area(s) signage was obscured or removed.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR

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Direction
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Elevation

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Violation Date: 09-08-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104C - Hazmat storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The hazmat storage area(s) signage was obscured or removed.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104C - Hazmat storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The hazmat storage area(s) signage was obscured or removed.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. NFPA 704 sign(s) properly posted. [RMC 16.32.020; CFC, Section 5003.5] - No NFPA 704 is posted. Provide the required NFPA 704 signage in the following locations: front of business/rear of business/hazmat area/on stationary containers/aboveground tanks/entrances to locations where hazardous materials are stored, dispensed, used or handled. The exterior signage to represent all chemicals at the facility; and the interior signage is to represent the chemical areas.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 09-08-2020
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104A - NFPA 704 sign(s) properly posted. [RMC 16.32.020; CFC, Section 5003.5] - No NFPA 704 is posted. Provide the required NFPA 704 signage in the following locations: front of business/rear of business/hazmat area/on stationary containers/aboveground tanks/entrances to locations where hazardous materials are stored, dispensed, used or handled. The exterior signage to represent all chemicals at the facility; and the interior signage is to represent the chemical areas.
Violation Division: Riverside City Fire Department

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<p>Violation Program: Violation Source:</p> <p>Site ID: Site Name: Violation Date: Citation:</p> <p>Violation Description: Violation Notes:</p> <p>Violation Division: Violation Program: Violation Source:</p> <p>Site ID: Site Name: Violation Date: Citation: Violation Description:</p> <p>Violation Notes:</p> <p>Violation Division: Violation Program: Violation Source:</p> <p>Site ID: Site Name: Violation Date: Citation:</p> <p>Violation Description:</p> <p>Violation Notes: Violation Division: Violation Program: Violation Source:</p> <p>Site ID: Site Name: Violation Date: Citation: Violation Description:</p> <p>Violation Notes:</p>	<p>HMRRP CERS,</p> <p>174264 UCR 09-08-2020 HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple Business Plan Program - Administration/Documentation - General Returned to compliance on 11/06/2020. Warning signs contain all required information. [19 CCR 2734(b)] - The required warning sign posted did not contain the required information.</p> <p>Riverside City Fire Department HMRRP CERS,</p> <p>174264 UCR 06-29-2020 Un-Specified Business Plan Program - Operations/Maintenance - General Local Ordinance Returned to compliance on 09/08/2020. 104D - Emergency equipment properly posted. [RMC 16.32.020; CFC, Section 5001.5.1(2)] - Emergency equipment such as eye wash stations were not properly posted or working in steam plant. To have emergency equipment available and working.</p> <p>Riverside City Fire Department HMRRP CERS,</p> <p>174264 UCR 05-21-2020 HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a) Failure to engineer or update each container installation in accordance with good engineering practice to avoid discharges and/or failure to provide at least one of the following devices on each container installation: 1. An audible or visual high liquid level alarm. 2. High liquid level pump cutoff devices. 3. Audible or code signal communications between tank gauger and pumping station. 4. A fast response system for determining liquid levels, such as computers, telepulse or direct vision gauges.</p> <p>Returned to compliance on 08/13/2020. Riverside City Fire Department APSA CERS,</p> <p>174264 UCR 05-21-2020 Un-Specified Business Plan Program - Operations/Maintenance - General Local Ordinance Returned to compliance on 11/06/2020. Materials stored to minimize the possibility of release. [RMC 16.32.020; CFC, Section 5004.2] - No</p>
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spill control and secondary containment was observed per CFC requirement in 5 locations. Materials need to be stored to minimize the possibility of release.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/06/2020. Warning signs contain all required information. [19 CCR 2734(b)] - The required warning sign posted did not contain the required information.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: Un-Specified

Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104A - NFPA 704 sign(s) properly posted. [RMC 16.32.020; CFC, Section 5003.5] - No NFPA 704 is posted. Provide the required NFPA 704 signage in the following locations: front of business/rear of business/hazmat area/on stationary containers/aboveground tanks/entrances to locations where hazardous materials are stored, dispensed, used or handled. The exterior signage to represent all chemicals at the facility; and the interior signage is to represent the chemical areas.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)

Violation Description: Failure to ensure that tanks are inspected and tested by an appropriately qualified person in accordance with industry standards.
Violation Notes: Returned to compliance on 09/08/2020.

Violation Division: Riverside City Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: Un-Specified

Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 11/06/2020. Hazmat storage area(s) properly

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posted. [RMC 16.32.020; CFC, Section 5003.6] - The hazmat storage area(s) signage was obscured or removed. Post NFPA and all required hazmat signage at all required locations. The hazmat storage areas signage was not in place.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 05-21-2020
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/04/2021. Warning signs contain all required information. [19 CCR 2734(b)] - The required warning sign posted did not contain the required information.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 08-13-2020
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to ensure that tanks are inspected and tested by an appropriately qualified person in accordance with industry standards.
Violation Notes: Returned to compliance on 09/08/2020.

Violation Division: Riverside City Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 11/06/2020. The business plan update within 30 days has not been completed as required due to the change of chemical inventories in multiple buildings and non-working eye wash stations.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 174264
Site Name: UCR
Violation Date: 06-29-2020
Citation: Un-Specified

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Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 05/04/2021. 104E - Pesticide storage area(s) properly posted. [RMC 16.32.020; CFC, Section 5003.6] - The pesticide storage area(s) signage was out of date.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 02-17-2021
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspector D. Young reinspection via email with photos.
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-10-2022
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-21-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Multi-day inspection
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-29-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection - D. Young
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-13-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Continuation of UCR Haz. Waste Audit.
Eval Division: Riverside County Department of Env Health
Eval Program: HWLQG
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-20-2014

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Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Final Changes on Haz. Waste Report & Printed Pictures
Eval Division: Riverside County Department of Env Health
Eval Program: HWLQG
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-24-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-24-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-13-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection - D. Young
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-08-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection - D. Young
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-17-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspector C. Adams. Met with Heidi Barrios from Environmental Health for a CalOES complaint in regards to 55 gallon drums of oil or oil like substance. It was an anonymous complaint and Heidi took the lead with paperwork and questions due to it being waste in nature. We walked the different areas she had determined with Gary who is the Hazardous Materials Safety Officer. Nothing was found and we completed a search of all the labs and all the greenhouses. Heidi closed the case and completed paperwork.
Eval Division: Riverside City Fire Department
Eval Program: HMRRP

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Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	11-18-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector D. Young. At the time of my inspection it was determined that it was a bad valve on the dewar. At this time the cylinder will be picked up by Airgas and repaired or replaced. The cylinder is currently in a fume hood and secured in the UCR EH&S building.
Eval Division:	Riverside City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	11-19-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UCR Haz. Waste Report Write-up
Eval Division:	Riverside County Department of Env Health
Eval Program:	HWLQG
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-24-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside City Fire Department
Eval Program:	APSA
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-04-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-01-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	LQG haz waste inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	HWLQG
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	11-06-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reinspection - D. Young
Eval Division:	Riverside City Fire Department
Eval Program:	HMRRP

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Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-26-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-04-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection - D. Young. All violations from 5/21/2020 routine inspection have been abated.
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-21-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Multi-day inspection
Eval Division: Riverside City Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-13-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection - D. Young
Eval Division: Riverside City Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-08-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection by D. Young. All violations from 5/21/2020 routine inspection have been abated.
Eval Division: Riverside City Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-13-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Haz. Waste Insp. w/ DTSC Audit
Eval Division: Riverside County Department of Env Health
Eval Program: HWLQG
Eval Source: CERS,

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UNIV CAL, RIVERSIDE (Continued)

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Eval General Type: Other/Unknown
Eval Date: 11-19-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Continuing UCR Haz. Waste Report Write-up
Eval Division: Riverside County Department of Env Health
Eval Program: HWLQG
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-20-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed Haz. Waste Report and obtained signature from UCR EH&S.
Eval Division: Riverside County Department of Env Health
Eval Program: HWLQG
Eval Source: CERS,

Enforcement Action:

Site ID: 174264
Site Name: UCR
Site Address: 900 UNIVERSITY AVE
Site City: RIVERSIDE
Site Zip: 92507
Enf Action Date: 03-10-2022
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Administrative Citation.
Enf Action Division: Riverside City Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 174264
Site Name: UCR
Site Address: 900 UNIVERSITY AVE
Site City: RIVERSIDE
Site Zip: 92507
Enf Action Date: 11-13-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HWLQG
Enf Action Source: CERS,

Coordinates:

Site ID: 174264
Facility Name: UCR
Env Int Type Code: HMBP
Program ID: 10525672
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 33.975620
Longitude: -117.331170

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Affiliation:

Affiliation Type Desc: Legal Owner
Entity Name: University Of CA Riverside
Entity Title: Not reported
Affiliation Address: 900 University Ave
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92507
Affiliation Phone: (951) 827-6311,

Affiliation Type Desc: Property Owner
Entity Name: University of California Regents
Entity Title: Not reported
Affiliation Address: 900 University Avenue
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92521
Affiliation Phone: (951) 827-4257,

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Document Preparer
Entity Name: Juan C Sanchez
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Sheila Hedayati
Entity Title: EHS Director
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 900 University Ave
Affiliation City: Riverside
Affiliation State: CA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

Affiliation Country: Not reported
Affiliation Zip: 92507
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: University Of CA Riverside
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 827-5528,

Affiliation Type Desc: Parent Corporation
Entity Name: UCR
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Juan Sanchez, University Of CA Riverside
Entity Title: Not reported
Affiliation Address: 900 University Ave
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92521
Affiliation Phone: ,

Name: STUDENT HEALTH & CC
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92521
Site ID: 600914
CERS ID: 898278
CERS Description: Construction Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: University of California Riverside
Entity Title: Operator
Affiliation Address: 900 University Avenue
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92507
Affiliation Phone: ,

Name: UNIVERSITY OF CALIFO
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 925210306
Site ID: 610628

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIV CAL, RIVERSIDE (Continued)

S101619625

CERS ID: 80001663
CERS Description: Corrective Action

Affiliation:

Affiliation Type Desc: Supervisor
Entity Name: Eileen Mananian
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 925210001
Site ID: 610630
CERS ID: CAD073134777
CERS Description: Hazardous Waste

Affiliation:

Affiliation Type Desc: Facility Contact
Entity Name: Juan Carlos Sanchez
Entity Title: Not reported
Affiliation Address: 900 UNIVERSITY AVENUEENVIRONMENTAL HEALTH AND SAFETY
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92521
Affiliation Phone: 9518275528,

Affiliation Type Desc: Facility Owner
Entity Name: UNIVERSITY OF CALIFORNIA,
Entity Title: Not reported
Affiliation Address: 900 UNIVERSITY AVE
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 925210000
Affiliation Phone: 9098275528,

A15 **T-MOBILE WEST, LLC IE25999A**
Target **900 UNIVERSITY AVE**
Property **RIVERSIDE, CA 92521**

CHMIRS **S100219487**
CERS **N/A**

Site 15 of 31 in cluster A

Actual:
1031 ft.

CHMIRS:
Name: Not reported
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA
OES Incident Number: 5-6510
OES notification: 11/10/2005
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T-MOBILE WEST, LLC IE25999A (Continued)

S100219487

Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	University Riverside
Incident Date:	11/10/200512:00:00 AM
Admin Agency:	Riverside City Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	School
E Date:	Not reported
Substance:	Mercury
Gallons:	0.000000
Pounds:	5
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

T-MOBILE WEST, LLC IE25999A (Continued)

S100219487

Evacs: Not reported
 Injuries: Not reported
 Fatales: Not reported
 Comments: Not reported
 Description: Substance was found on the floor of the boiler room. Clean-up is in process. Substance was released at an unknown date. Substance has a fine layer of dust on it.

Name: Not reported
 Address: 900 UNIVERSITY AVE
 City,State,Zip: RIVERSIDE, CA
 OES Incident Number: 21-6460
 OES notification: 11/13/2021
 OES Date: Not reported
 OES Time: Not reported
Date Completed: Not reported
 Property Use: Not reported
 Agency Id Number: Not reported
 Agency Incident Number: Not reported
 Time Notified: Not reported
 Time Completed: Not reported
 Surrounding Area: Not reported
 Estimated Temperature: Not reported
 Property Management: Not reported
 More Than Two Substances Involved?: Not reported
 Resp Agncy Personel # Of Decontaminated: Not reported
 Responding Agency Personel # Of Injuries: Not reported
 Responding Agency Personel # Of Fatalities: Not reported
 Others Number Of Decontaminated: Not reported
 Others Number Of Injuries: Not reported
 Others Number Of Fatalities: Not reported
 Vehicle Make/year: Not reported
 Vehicle License Number: Not reported
 Vehicle State: Not reported
 Vehicle Id Number: Not reported
 CA DOT PUC/ICC Number: Not reported
 Company Name: Not reported
 Reporting Officer Name/ID: Not reported
 Report Date: Not reported
 Facility Telephone: Not reported
 Waterway Involved: No
 Waterway: Not reported
 Spill Site: School
 Cleanup By: Unknown
 Containment: Not reported
 What Happened: Not reported
 Type: Not reported
 Measure: Not reported
 Other: Not reported
 Type: PETROLEUM
 Measure: N/A
 Other: Not reported
 Date/Time: 0
 Year: 2021
 Agency: NRC
 Incident Date: 01/01/2014

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T-MOBILE WEST, LLC IE25999A (Continued)

S100219487

Admin Agency:	City of Riverside Fire Marshal
Amount:	Not reported
Contained:	Not stopped
Site Type:	Not reported
E Date:	Not reported
Substance:	Unknown Oil
Quantity Released:	unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	***Historical Report*** Per NRC: " THE CALLER STATED THAT COLLAGE HAS VARIOUS CONTAINERS CONTAINING AN UNKNOWN OIL THAT HAS BEEN AT THE LOCATION SINCE THE 50S. ACCORDING TO THE CALLER THEY BELIEVE THE CONTAINERS HAVE THE POTENTIAL TO RELEASE THE MATERIAL. ACCORDING TO THE CALLER THE CAUSE OF THE RELEASE WOULD BE DEGRADATION OF THE CONTAINERS OVER TIME. SHOULD THE MATERIAL RELEASE IT WILL GO ONTO NEARBY SOIL."
Name:	Not reported
Address:	900 UNIVERSITY AVE
City,State,Zip:	RIVERSIDE, CA 92521
OES Incident Number:	2-5953
OES notification:	11/04/2002
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	Not reported
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T-MOBILE WEST, LLC IE25999A (Continued)

S100219487

Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	University of CA - Riverside
Incident Date:	11/4/200212:00:00 AM
Admin Agency:	Riverside City Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	School
E Date:	Not reported
Substance:	raw sewage
Gallons:	150
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Release caused by sewage blockage. It traveled down a gutter and does not appear to have reached the storm drain. It has since evaporated.
Name:	Not reported
Address:	900 UNIVERSITY AVE.
City,State,Zip:	RIVERSIDE, CA 92507
OES Incident Number:	009962
OES notification:	Not reported
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	03-FEB-90
Property Use:	200

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T-MOBILE WEST, LLC IE25999A (Continued)

S100219487

Agency Id Number:	33075
Agency Incident Number:	9001684
Time Notified:	1324
Time Completed:	1347
Surrounding Area:	200
Estimated Temperature:	65
Property Management:	S
More Than Two Substances Involved?:	N
Resp Agncy Personel # Of Decontaminated:	0
Responding Agency Personel # Of Injuries:	0
Responding Agency Personel # Of Fatalities:	0
Others Number Of Decontaminated:	0
Others Number Of Injuries:	0
Others Number Of Fatalities:	0
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	PATRICK MCGREEHAN/CAPT. DREDLA #24760
Report Date:	03-FEB-90
Facility Telephone:	714 782-5331
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	88-92
Agency:	Not reported
Incident Date:	03-FEB-90
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Not reported
Site Type:	Not reported
E Date:	25-MAY-90
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T-MOBILE WEST, LLC IE25999A (Continued)

S100219487

Comments:	Not reported
Description:	Not reported
Name:	Not reported
Address:	900 UNIVERSITY AVE
City,State,Zip:	RIVERSIDE, CA
OES Incident Number:	8-0260
OES notification:	01/20/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	Not reported
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	storm drain
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	Univ Ca at Riverside
Incident Date:	1/9/199812:00:00 AM
Admin Agency:	ERROR: Server error: Entry not found in index
Amount:	Not reported
Contained:	Yes
Site Type:	School
E Date:	Not reported
Substance:	Asbetos
Gallons:	0.000000
Pounds:	2
Unknown:	0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T-MOBILE WEST, LLC IE25999A (Continued)

S100219487

Substance #2: Not reported
Substance #3: Not reported
Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatafs: Not reported
Comments: Not reported
Description: Outdoor paint coating on a tennis court and rain washed a portion of the paint into a local gulley. Gulley has been diked and sandbagged , unknown quantity of the substance got out.

CERS:

Name: T-MOBILE WEST, LLC IE25999A
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Site ID: 599569
CERS ID: 10887985
CERS Description: Chemical Storage Facilities

Affiliation:

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 4100 Guardian St., Suite 101
Affiliation City: Simi Valley
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93063
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: T-MOBILE WEST, LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T-MOBILE WEST, LLC IE25999A (Continued)

S100219487

Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Identification Signer
Entity Name: Kelly Michaels
Entity Title: Sr Project Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: T-MOBILE WEST, LLC
Entity Title: Not reported
Affiliation Address: 12920 SE 38th Street
Affiliation City: Bellevue
Affiliation State: WA
Affiliation Country: United States
Affiliation Zip: 98006
Affiliation Phone: (425) 383-4000,

Affiliation Type Desc: Document Preparer
Entity Name: Kelly Michaels
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: T-MOBILE WEST, LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (805) 584-5708,

Affiliation Type Desc: Environmental Contact
Entity Name: Kelly Michaels
Entity Title: Not reported
Affiliation Address: 208 McGaw Ave
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92614
Affiliation Phone: ,

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

**A16
 Target
 Property**

**STUDENT HEALTH & CC
 900 UNIVERSITY AVENUE
 RIVERSIDE, CA 92521**

**CHMIRS
 NPDES
 CIWQS**

**S118189191
 N/A**

Site 16 of 31 in cluster A

**Actual:
 1031 ft.**

CHMIRS:
 Name: Not reported
 Address: 900 UNIVERSITY AVE
 City,State,Zip: RIVERSIDE, CA 92521
 OES Incident Number: 15-3788
 OES notification: 07/02/2015
 OES Date: Not reported
 OES Time: Not reported
Date Completed: Not reported
 Property Use: Not reported
 Agency Id Number: Not reported
 Agency Incident Number: Not reported
 Time Notified: Not reported
 Time Completed: Not reported
 Surrounding Area: Not reported
 Estimated Temperature: Not reported
 Property Management: Not reported
 More Than Two Substances Involved?: Not reported
 Resp Agncy Personel # Of Decontaminated: Not reported
 Responding Agency Personel # Of Injuries: Not reported
 Responding Agency Personel # Of Fatalities: Not reported
 Others Number Of Decontaminated: Not reported
 Others Number Of Injuries: Not reported
 Others Number Of Fatalities: Not reported
 Vehicle Make/year: Not reported
 Vehicle License Number: Not reported
 Vehicle State: Not reported
 Vehicle Id Number: Not reported
 CA DOT PUC/ICC Number: Not reported
 Company Name: Not reported
 Reporting Officer Name/ID: Not reported
 Report Date: Not reported
 Facility Telephone: Not reported
 Waterway Involved: Yes
 Waterway: Storm Drain
 Spill Site: School
 Cleanup By: Contractor
 Containment: Not reported
 What Happened: Not reported
 Type: Not reported
 Measure: Not reported
 Other: Not reported
 Type: PETROLEUM
 Measure: Gal(s)
 Other: Not reported
 Date/Time: 930
 Year: 2015
 Agency: UC Riverside
 Incident Date: 07/02/2015
 Admin Agency: Riverside City Fire Department
 Amount: Not reported
 Contained: Yes
 Site Type: Storm Drain

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

STUDENT HEALTH & CC (Continued)

S118189191

E Date:	Not reported
Substance:	Used Oil
Quantity Released:	1
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Caller states a hose was connected to the bottom of a fitting on a 20 gallon motor oil collection drum. Caller states hose became disconnected causing release on to the service bay and into a drain that leads to the sanitary sewer.

NPDES:

Name:	STUDENT HEALTH & CC
Address:	900 UNIVERSITY AVENUE
City,State,Zip:	RIVERSIDE, CA 92521
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 33C396333
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	02/01/2022
Operator Name:	University of California Riverside
Operator Address:	900 University Avenue
Operator City:	Riverside
Operator State:	California
Operator Zip:	92507

Name: STUDENT HEALTH & CC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STUDENT HEALTH & CC (Continued)

S118189191

Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92521
Facility Status: Active
NPDES Number: CAS000002
Region: 8
Agency Number: 0
Regulatory Measure ID: 540490
Place ID: Not reported
Order Number: 2009-0009-DWQ
WDID: 8 33C396333
Regulatory Measure Type: Enrollee
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 02/01/2022
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 900 University Avenue
Discharge Name: University of California Riverside
Discharge City: Riverside
Discharge State: California
Discharge Zip: 92507
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

CIWQS:

Name: STUDENT HEALTH & CC
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92521
Agency: University of California Riverside
Agency Address: 900 University Avenue, Riverside, CA 92507
Place/Project Type: Construction - Commercial
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 8 33C396333
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 02/01/2022
Termination Date: Not reported
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.97903
Longitude: -117.32238

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A17
Target
Property

900 UNIVERSTY AVE
RIVERSIDE, CA

CHMIRS S105884755
N/A

Site 17 of 31 in cluster A

Actual:
1031 ft.

CHMIRS:
Name: Not reported
Address: 900 UNIVERSTY AVE
City,State,Zip: RIVERSIDE, CA
OES Incident Number: 2-3179
OES notification: 06/10/2002
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Unknown
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 2002
Agency: nrc
Incident Date: 6/10/200212:00:00 AM
Admin Agency: Riverside City Fire Department
Amount: Not reported
Contained: Unknown
Site Type: School
E Date: Not reported
Substance: DDD PESTICIDE
Gallons: 0.000000

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

S105884755

Pounds:	95.5
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	THE CALLER STATED THAT A CONTAINER WAS DISCOVERED UNDERNEATH A WOOD BUILDING THAT WAS ON CONCRETE PILLARS. THERE WAS SOME SOIL SAMPLES TAKEN.

A18 **VERIZON WIRELESS: BIG SPRINGS**
Target **900 UNIVERSITY AVE**
Property **RIVERSIDE, CA 92521**

FINDS **1023306016**
N/A

Site 18 of 31 in cluster A

Actual: FINDS:
1031 ft. Registry ID: 110065985125

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
 STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A19 **UNIVERSITY OF CALIFORNIA, RIVERSIDE**
Target ,
Property

PRP **1026648754**
N/A

Site 19 of 31 in cluster A

Actual:	PRP:	
1031 ft.	Name:	UNIVERSITY OF CALIFORNIA, RIVERSIDE
	Address:	Not reported
	City,State,Zip:	Not reported
	Superfund EPAID:	LAD985214766
	Superfund Name:	HILLSDALE DRUMS
	Superfund Address:	RT 1 BOX 87 (3/4 MI S OF HILLSDALE)
	Superfund City,State,Zip:	AMITE, LA 70422
	NPL Status:	Not on the NPL
	NPL Status Short Name:	NFRAP-Site does not qualify for the NPL based on existing information
	Data Type:	SETTLEMENT DATE
	Action Date:	3/20/1995
	Settlement Code:	AC-1
	Settlement:	ADM ORDR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CALIFORNIA, RIVERSIDE (Continued)

1026648754

Latitude: Not reported
Longitude: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE.
City,State,Zip: RIVERSIDE, CA 92521
Superfund EPAID: LAD980624514
Superfund Name: MARCO OF IOTA
Superfund Address: HWY 370 1 MIKE E OF IOTA
Superfund City,State,Zip: IOTA, LA 70543
NPL Status: Not on the NPL
NPL Status Short Name: Referred to Removal - NFRAP
Data Type: SETTLEMENT DATE
Action Date: 10/8/1996
Settlement Code: AC-5
Settlement: ADM ORDR
Latitude: Not reported
Longitude: Not reported

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE.
City,State,Zip: RIVERSIDE, CA 92521
Superfund EPAID: LAD980624514
Superfund Name: MARCO OF IOTA
Superfund Address: HWY 370 1 MIKE E OF IOTA
Superfund City,State,Zip: IOTA, LA 70543
NPL Status: Not on the NPL
NPL Status Short Name: Referred to Removal - NFRAP
Data Type: SETTLEMENT DATE
Action Date: 6/5/1996
Settlement Code: AC-2
Settlement: ADM ORDR
Latitude: Not reported
Longitude: Not reported

A20
Target
Property

900 UNIVERSITY AVE
RIVERSIDE, CA 92507

ERNS 2021321942
N/A

Site 20 of 31 in cluster A

Actual:
1031 ft.

Incident Commons:
NRC Report #: 1321942
Description of Incident: THE CALLER STATED THAT A COLLAGE HAS VARIOUS CONTAINERS CONTAINING AN UNKNOWN OIL THAT HAS BEEN AT THE LOCATION SINCE THE 50 S. ACCORDING TO THE CALLER THEY BELIEVE THE CONTAINERS HAVE THE POTENTIAL TO RELEASE THE MATERIAL. ACCORDING TO THE CALLER THE CAUSE OF THE RELEASE WOULD BE DEGRADATION OF THE CONTAINERS OVER TIME. SHOULD THE MATERIAL RELEASE IT WILL GO ONTO NEARBY SOIL.

Type of Incident: FIXED
Incident Cause: UNKNOWN
Incident Date Time: 1/1/2014 0:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 900 UNIVERSITY AVE
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: RIVERSIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Location State:	CA
Location County:	RIVERSIDE
Location Zip:	92507
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Y
Incidents:	
NRC Report #:	1321942
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	SCHOOL
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	U
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSF Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX
NRC Report #:	1321942
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	SCHOOL
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	U
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OOSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

FBI Contact Date Time: Not reported
Sub Part C Testing Req: XXX
Conductor Testing: Not reported
Engineer Testing: Not reported
Trainman Testing: Not reported
Yard Foreman Testing: Not reported
RCL Operator Testing: Not reported
Brakeman Testing: Not reported
Train Dispatcher Testing: Not reported
Signalman Testing: Not reported
Other Employee Testing: Not reported
Unknown Testing: Not reported
Passenger Handling: Not reported
Passenger Route: XXX
Passenger Delay: XXX

Incident Details:

NRC Report #: 1321942
Fire Involved: N
Fire Extinguished: U
Any Evacuations: N
Number Evacuated: Not reported
Who Evacuated: Not reported
Radius of Evacuation: Not reported
Any Injuries: N
Number Injured: Not reported
Number Hospitalized: Not reported
Any Fatalities: N
Number Fatalities: Not reported
Any Damages: N
Damage Amount: Not reported
Air Corridor Closed: N
Air Corridor Desc: Not reported
Air Closure Time: Not reported
Waterway Closed: N
Waterway Desc: Not reported
Waterway Closure Time: Not reported
Road Closed: N
Road Desc: Not reported
Road Closure Time: Not reported
Closure Direction: Not reported
Major Artery: N
Track Closed: N
Track Desc: Not reported
Track Closure Time: Not reported
Media Interest: NONE
Medium Desc: LAND
Additional Medium Info: SOIL
Body of Water: Not reported
Tributary of: Not reported
Release Secured: U
Estimated Duration of Release: Not reported
Release rate: Not reported
Desc Remedial Action: NO ACTION TAKEN
State Agency on Scene: Not reported
State Agency Report Number: Not reported
Other Agency Notified: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	NO
NRC Report #:	1321942
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	LAND
Additional Medium Info:	SOIL
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	NO ACTION TAKEN
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track Closure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: NO

Calls:

NRC Report #: 1321942
Site ID: 20211321942
Date Time Received: 2021-11-13 19:02:00
Date Time Complete: 2021-11-13 19:11:00
Call Type: INC
Responsible Company: UCR COLLEGE
Responsible Org Type: OTHER
Responsible City: RIVERSIDE
Responsible State: CA
Responsible Zip: 92507
On Behalf: Not reported
Source: TELEPHONE

NRC Report #: 1321942
Site ID: 20211321942
Date Time Received: 2021-11-13 19:02:00
Date Time Complete: 2021-11-13 19:11:00
Call Type: INC
Responsible Company: UCR COLLEGE
Responsible Org Type: OTHER
Responsible City: RIVERSIDE
Responsible State: CA
Responsible Zip: 92507
On Behalf: Not reported
Source: TELEPHONE

Material Involved:

NRC Report #: 1321942
Chris Code: OUN
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 0
Unit of Measure: UNKNOWN AMOUNT
Name of Material: UNKNOWN OIL
If Reached Water: NO
Amount in Water: Not reported
Unit of Measure Reach Water: Not reported

NRC Report #: 1321942
Chris Code: OUN
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 0
Unit of Measure: UNKNOWN AMOUNT
Name of Material: UNKNOWN OIL
If Reached Water: NO
Amount in Water: Not reported
Unit of Measure Reach Water: Not reported

NRC Report #: 1321942

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Description of Incident: THE CALLER STATED THAT A COLLAGE HAS VARIOUS CONTAINERS CONTAINING AN UNKNOWN OIL THAT HAS BEEN AT THE LOCATION SINCE THE 50 S. ACCORDING TO THE CALLER THEY BELIEVE THE CONTAINERS HAVE THE POTENTIAL TO RELEASE THE MATERIAL. ACCORDING TO THE CALLER THE CAUSE OF THE RELEASE WOULD BE DEGRADATION OF THE CONTAINERS OVER TIME. SHOULD THE MATERIAL RELEASE IT WILL GO ONTO NEARBY SOIL.

Type of Incident: FIXED
Incident Cause: UNKNOWN
Incident Date Time: 1/1/2014 0:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 900 UNIVERSITY AVE
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: RIVERSIDE
Location State: CA
Location County: RIVERSIDE
Location Zip: 92507
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Y

Incidents:
NRC Report #: 1321942
Aircraft Type: Not reported
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported
Aircraft Fuel on Board: Not reported
Aircraft Fuel on Board Units: Not reported
Aircraft Spot Number: Not reported
Aircraft Hanger: Not reported
Aircraft Runway Number: Not reported
Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: SCHOOL
Power Generating Facility: U
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U
Pipeline Type: Not reported
DOT Regulated: U
Pipeline Above Ground: ABOVE
Exposed Underwater: N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	U
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OOSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX
NRC Report #:	1321942
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	SCHOOL
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	U
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSF Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Initial Continuous Release No: Not reported
Continuous Release Permit: Not reported
Allision: U
Type of Structure: Not reported
Structure Name: Not reported
Structure Operational: U
Airbag Deployed: U
Date Tiem Normal Service: Not reported
Service Disruption Time: Not reported
Service Disruption Units: Not reported
Transit Bus Flag: Not reported
CR Begin Date: Not reported
CR End Date: Not reported
CR Change Date: Not reported
FBI Contact: Not reported
FBI Contact Date Time: Not reported
Sub Part C Testing Req: XXX
Conductor Testing: Not reported
Engineer Testing: Not reported
Trainman Testing: Not reported
Yard Foreman Testing: Not reported
RCL Operator Testing: Not reported
Brakeman Testing: Not reported
Train Dispatcher Testing: Not reported
Signalman Testing: Not reported
Other Employee Testing: Not reported
Unknown Testing: Not reported
Passenger Handling: Not reported
Passenger Route: XXX
Passenger Delay: XXX

Incident Details:
NRC Report #: 1321942
Fire Involved: N
Fire Extinguished: U
Any Evacuations: N
Number Evacuated: Not reported
Who Evacuated: Not reported
Radius of Evacuation: Not reported
Any Injuries: N
Number Injured: Not reported
Number Hospitalized: Not reported
Any Fatalities: N
Number Fatalities: Not reported
Any Damages: N
Damage Amount: Not reported
Air Corridor Closed: N
Air Corridor Desc: Not reported
Air Closure Time: Not reported
Waterway Closed: N
Waterway Desc: Not reported
Waterway Closure Time: Not reported
Road Closed: N
Road Desc: Not reported
Road Closure Time: Not reported
Closure Direction: Not reported
Major Artery: N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	LAND
Additional Medium Info:	SOIL
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	NO ACTION TAKEN
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track Closure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	NO
NRC Report #:	1321942
Fire Involved:	N
Fire Extinguished:	U

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	LAND
Additional Medium Info:	SOIL
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	NO ACTION TAKEN
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2021321942

Occupant Fatality: Not reported
Current Speed Unit: Not reported
Road Closure Units: Not reported
Track Closure Units: Not reported
Sheen Size Units: Not reported
Additional Info: Not reported
State Agency Notified: Not reported
Federal Agency Notified: Not reported
nearest River Mile Marker: Not reported
Sheen Size Length: Not reported
Sheen Size Length Units: Not reported
Sheen Size Width: Not reported
Sheen Size Width Units: Not reported
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: NO

Calls:

NRC Report #: 1321942
Site ID: 20211321942
Date Time Received: 2021-11-13 19:02:00
Date Time Complete: 2021-11-13 19:11:00
Call Type: INC
Responsible Company: UCR COLLEGE
Responsible Org Type: OTHER
Responsible City: RIVERSIDE
Responsible State: CA
Responsible Zip: 92507
On Behalf: Not reported
Source: TELEPHONE

NRC Report #: 1321942
Site ID: 20211321942
Date Time Received: 2021-11-13 19:02:00
Date Time Complete: 2021-11-13 19:11:00
Call Type: INC
Responsible Company: UCR COLLEGE
Responsible Org Type: OTHER
Responsible City: RIVERSIDE
Responsible State: CA
Responsible Zip: 92507
On Behalf: Not reported
Source: TELEPHONE

Material Involved:

NRC Report #: 1321942
Chris Code: OUN
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 0
Unit of Measure: UNKNOWN AMOUNT
Name of Material: UNKNOWN OIL
If Reached Water: NO
Amount in Water: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

2021321942

Unit of Measure Reach Water: Not reported

NRC Report #: 1321942
 Chris Code: OUN
 Case Number: 000000-00-0
 UN Number: Not reported
 Amount of Material: 0
 Unit of Measure: UNKNOWN AMOUNT
 Name of Material: UNKNOWN OIL
 If Reached Water: NO
 Amount in Water: Not reported
 Unit of Measure Reach Water: Not reported

A21 UC RIVERSIDE GENOMICS BLDG
Target 900 UNIVERSITY AVE S OF EUCALYPTUS DR & E OF CITRUS DR
Property RIVERSIDE, CA 92521

CIWQS S121686850
N/A

Site 21 of 31 in cluster A

Actual:
1031 ft.

CIWQS:
 Name: UC RIVERSIDE GENOMICS BLDG
 Address: 900 UNIVERSITY AVE S OF EUCALYPTUS DR & E OF CITRUS DR
 City,State,Zip: RIVERSIDE, CA 92521
 Agency: UC Riverside
 Agency Address: 3615A Canyon Crest Dr, Riverside, CA 92507
 Place/Project Type: Construction
 SIC/NAICS: Not reported
 Region: 8
 Program: CONSTW
 Regulatory Measure Status: Terminated
 Regulatory Measure Type: Storm water construction
 Order Number: 99-08DW
 WDID: 8 33C344994
 NPDES Number: CAS000002
 Adoption Date: Not reported
 Effective Date: 12/26/2006
 Termination Date: 03/02/2009
 Expiration/Review Date: Not reported
 Design Flow: Not reported
 Major/Minor: Not reported
 Complexity: Not reported
 TTWQ: Not reported
 Enforcement Actions within 5 years: 0
 Violations within 5 years: 0
 Latitude: 32
 Longitude: Error

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

A22 **THE HABIT BURGER GRILL**
Target **900 UNIVERSITY AVE**
Property **RIVERSIDE, CA 92521**

HAZNET **S113001634**
NPDES **N/A**
CERS
HWTS

Site 22 of 31 in cluster A

Actual:
1031 ft.

<p>HAZNET: Name: Address: Address 2: City,State,Zip: Contact: Telephone: Mailing Name: Mailing Address:</p> <p>Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:</p> <p>Tons:</p> <p>Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:</p> <p>Tons:</p> <p>Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:</p> <p>Tons:</p> <p>Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:</p> <p>Tons:</p> <p>Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:</p> <p>Tons:</p> <p>Year: Gepaid: TSD EPA ID: CA Waste Code: Disposal Method:</p> <p>Tons:</p>	<p>UNIVERSITY OF CALIFORNIA RIVERSIDE 900 UNIVERSITY AVE Not reported RIVERSIDE, CA 925210000 RICHARD WATSON 9518274248 Not reported 900 UNIVERSITY AVE</p> <p>2019 CAD073134777 CAD044429835 551 - Laboratory waste chemicals H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 0.85750</p> <p>2019 CAD073134777 CAD980675276 343 - Unspecified organic liquid mixture H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization) 0.09200</p> <p>2019 CAD073134777 CAD044429835 291 - Latex waste H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 2.21350</p> <p>2019 CAD073134777 TXD982560294 352 - Other organic solids H040 - Incineration--Thermal Destruction Other Than Use As A Fuel 0.00150</p> <p>2019 CAD073134777 NED981723513 541 - Photochemicals/photoprocessing waste H040 - Incineration--Thermal Destruction Other Than Use As A Fuel 0.21900</p> <p>2019 CAD073134777 CAD044429835 181 - Other inorganic solid waste H141 - Storage, Bulking, And/Or Transfer Off Site--No</p>
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Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Tons:	Treatment/Reovery (H010-H129) Or (H131-H135) 0.04700
Year:	2019
Gepaid:	CAD073134777
TSD EPA ID:	CAD044429835
CA Waste Code:	133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.10000
Year:	2019
Gepaid:	CAD073134777
TSD EPA ID:	CAD044429835
CA Waste Code:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions ...
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.36100
Year:	2019
Gepaid:	CAD073134777
TSD EPA ID:	CAD044429835
CA Waste Code:	123 - Unspecified alkaline solution
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.12400
Year:	2019
Gepaid:	CAD073134777
TSD EPA ID:	AZD049318009
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01950

[Click this hyperlink](#) while viewing on your computer to access
1016 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2005
Gen EPA ID:	CAD073134777
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	24162796
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	UTD988074712
Trans 2 Name:	TW COMPANY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Meth Code: - Not reported
Quantity Tons: 0.003
Waste Quantity: 6
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20051213
Creation Date: 1/4/2007 18:30:12
Receipt Date: 20051216
Manifest ID: 24558713
Trans EPA ID: CAD981429673
Trans Name: PHOTO WASTE RECYCLING CO INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD981429673
Trans Name: PHOTO WASTE RECYCLING CO INC
TSDf Alt EPA ID: CAD981429673
TSDf Alt Name: Not reported
Waste Code Description: 541 - Photochemicals / photo processing waste
RCRA Code: D011
Meth Code: R01 - Recycler
Quantity Tons: 0.7089
Waste Quantity: 170
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20051110
Creation Date: 5/24/2006 18:32:16
Receipt Date: 20051110
Manifest ID: 96592906
Trans EPA ID: CAR000049064
Trans Name: ECTI
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD009007626
Trans Name: AZUSA LAND RECLAMATION
TSDf Alt EPA ID: CAD009007626
TSDf Alt Name: Not reported
Waste Code Description: 151 - Asbestos-containing waste
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 33.712
Waste Quantity: 40
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date:	20051103
Creation Date:	1/2/2007 18:30:32
Receipt Date:	20051111
Manifest ID:	24676193
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051103
Creation Date:	1/2/2007 18:30:32
Receipt Date:	20051111
Manifest ID:	24676193
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	2.5325
Waste Quantity:	5065
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051103
Creation Date:	1/2/2007 18:30:32
Receipt Date:	20051111
Manifest ID:	24676193
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	UTD981552177

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
RCRA Code: Not reported
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20051103
Creation Date: 1/2/2007 18:30:32
Receipt Date: 20051111
Manifest ID: 24676193
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.021
Waste Quantity: 42
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20051027
Creation Date: 3/14/2007 18:30:14
Receipt Date: 20051101
Manifest ID: 24155369
Trans EPA ID: CAL000281404
Trans Name: HAZ MAT SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAR000156125
Trans Name: LIGHTING RESOURCES LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 731 - Liquids with polychlorinated biphenyls > 50 mg/l
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.19505
Waste Quantity: 177
Quantity Unit: K

Map ID
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MAP FINDINGS

Site

Database(s)

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THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051019
Creation Date:	5/24/2006 18:31:13
Receipt Date:	20051026
Manifest ID:	96592921
Trans EPA ID:	CAR000049064
Trans Name:	ECTI
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009007626
Trans Name:	AZUSA LAND RECLAMATION
TSDf Alt EPA ID:	CAD009007626
TSDf Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	33.712
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051005
Creation Date:	3/12/2006 18:30:40
Receipt Date:	20051005
Manifest ID:	22416597
Trans EPA ID:	CAR000049064
Trans Name:	ECTI
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009007626
Trans Name:	AZUSA LAND RECLAMATION
TSDf Alt EPA ID:	CAD009007626
TSDf Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	33.712
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	1999
Gen EPA ID:	CAD073134777

Map ID
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MAP FINDINGS

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EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date: 19991223
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 99022420
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: CAD050806850
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.031
Waste Quantity: 62
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991223
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 99022420
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: CAD050806850
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D006
Meth Code: H01 - Transfer Station
Quantity Tons: 0.005
Waste Quantity: 10
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991223
Creation Date: 4/4/2000 0:00:00
Receipt Date: 19991230
Manifest ID: 99022420
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: Not reported
TSDF Alt EPA ID: CAD050806850
TSDF Alt Name: Not reported
Waste Code Description: 791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code: D002
Meth Code: T01 - Treatment, Tank
Quantity Tons: 0.2502
Waste Quantity: 60
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991223
Creation Date: 4/4/2000 0:00:00
Receipt Date: 19991230
Manifest ID: 99022420
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD050806850
Trans Name: Not reported
TSDF Alt EPA ID: CAD050806850
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: H01 - Transfer Station
Quantity Tons: 0.324
Waste Quantity: 90
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991223
Creation Date: 4/4/2000 0:00:00
Receipt Date: 19991230
Manifest ID: 99022420
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD050806850
Trans Name: Not reported
TSDF Alt EPA ID: CAD050806850
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: H01 - Transfer Station
Quantity Tons: 0.216
Waste Quantity: 60
Quantity Unit: G

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991223
Creation Date: 4/4/2000 0:00:00
Receipt Date: 19991230
Manifest ID: 99022420
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: CAD050806850
TSDf Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D002
Meth Code: T01 - Treatment, Tank
Quantity Tons: 0.2502
Waste Quantity: 60
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991223
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 99022420
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: CAD050806850
TSDf Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0625
Waste Quantity: 15
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991223
Creation Date: 2/1/2000 0:00:00
Receipt Date: 19991223

Map ID
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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Manifest ID: 98350665
Trans EPA ID: CAR000017657
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD009007626
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 151 - Asbestos-containing waste
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 25.284
Waste Quantity: 30
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991223
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 99022420
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: CAD050806850
TSDf Alt Name: Not reported
Waste Code Description: 261 - Not reported
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.025
Waste Quantity: 50
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991223
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 99022420
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: CAD050806850
TSDf Alt Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.04
Waste Quantity: 80
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2008
Gen EPA ID: CAD073134777

Shipment Date: 20081219
Creation Date: 5/29/2009 18:30:24
Receipt Date: 20081229
Manifest ID: 000776525GBF
Trans EPA ID: CAD066151648
Trans Name: THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: TXD982560294
Trans Name: NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: F003
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.4665
Waste Quantity: 933
Quantity Unit: P
Additional Code 1: D002
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20081219
Creation Date: 5/29/2009 18:30:24
Receipt Date: 20081229
Manifest ID: 000776525GBF
Trans EPA ID: CAD066151648
Trans Name: THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: TXD982560294
Trans Name: NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Tons:	0.9085
Waste Quantity:	1817
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081219
Creation Date:	5/29/2009 18:30:24
Receipt Date:	20081229
Manifest ID:	000776525GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.21
Waste Quantity:	420
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081219
Creation Date:	5/29/2009 18:30:24
Receipt Date:	20081229
Manifest ID:	000776526GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1765
Waste Quantity:	353
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 5:	Not reported
Shipment Date:	20081219
Creation Date:	5/29/2009 18:30:24
Receipt Date:	20081229
Manifest ID:	000776525GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.142
Waste Quantity:	284
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081219
Creation Date:	5/29/2009 18:30:24
Receipt Date:	20081229
Manifest ID:	000776526GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0865
Waste Quantity:	173
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081211
Creation Date:	4/9/2009 18:30:08
Receipt Date:	20081215
Manifest ID:	000731693FLE
Trans EPA ID:	CAR000049064

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name:	ECTI
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	AZC950823111
Trans Name:	LA PAZ COUNTY LANDFILL
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	16
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	002110887FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.097
Waste Quantity:	194
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	002110887FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

RCRA Code: Not reported
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.02
Waste Quantity: 40
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20081205
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 002110887FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.004
Waste Quantity: 8
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1997
Gen EPA ID: CAD073134777

Shipment Date: 19971217
Creation Date: 7/23/1998 0:00:00
Receipt Date: 19971217
Manifest ID: 96592948
Trans EPA ID: CAR000017657
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD009007626
Trans Name: Not reported
TSDf Alt EPA ID: CAD009007626
TSDf Alt Name: Not reported
Waste Code Description: 151 - Asbestos-containing waste
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 29.498
Waste Quantity: 35
Quantity Unit: Y

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971205
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971205
Manifest ID:	96625213
Trans EPA ID:	CAR000017657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD009007626
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD009007626
TSDf Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	4.214
Waste Quantity:	5
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971205
Creation Date:	3/18/1998 0:00:00
Receipt Date:	19971208
Manifest ID:	95540396
Trans EPA ID:	OKD981588791
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	KSD981506025
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	232 - Pesticides and other waste associated with pesticide production
RCRA Code:	F027
Meth Code:	- Not reported
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971203
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971204

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Manifest ID:	96748307
Trans EPA ID:	CAD983604000
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD983604000
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD983604000
TSDf Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.0708
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971201
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	96643133
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD050806850
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0765
Waste Quantity:	153
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19971201
Creation Date:	4/23/1998 0:00:00
Receipt Date:	19971205
Manifest ID:	96643133
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD050806850
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Waste Code Description: 231 - Pesticide rinse water
RCRA Code: P020
Meth Code: H01 - Transfer Station
Quantity Tons: 0.1042
Waste Quantity: 25
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19971201
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 96643133
Trans EPA ID: CAD000083121
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D006
Meth Code: H01 - Transfer Station
Quantity Tons: 0.019
Waste Quantity: 38
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19971201
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 96643133
Trans EPA ID: CAD000083121
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.004
Waste Quantity: 8
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19971201
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 96643133
Trans EPA ID: CAD000083121
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0635
Waste Quantity: 127
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19971201
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 96643133
Trans EPA ID: CAD000083121
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.146
Waste Quantity: 292
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2001
Gen EPA ID: CAD073134777

Shipment Date: Not reported
Creation Date: Not reported

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Receipt Date: Not reported
Manifest ID: 20840554
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NJD986607380
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.0065
Waste Quantity: 13
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 20840554
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NJD986607380
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.0075
Waste Quantity: 15
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 20840554
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NJD986607380
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: U133
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.006
Waste Quantity: 12
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 20840554
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NJD986607380
Trans 2 Name: Not reported
TSDF EPA ID: NED981723513
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: U088
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.2635
Waste Quantity: 527
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 20840554
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NJD986607380
Trans 2 Name: Not reported
TSDF EPA ID: NED981723513
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: U044
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.1115
Waste Quantity: 223
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 20840554
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NJD986607380
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.017
Waste Quantity: 34
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 20840554
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NJD986607380
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.008
Waste Quantity: 16
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 20840554
Trans EPA ID: MAD039322250

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: Not reported
Trans 2 EPA ID: NJD986607380
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.008
Waste Quantity: 16
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 20840554
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NJD986607380
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.0135
Waste Quantity: 27
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20011221
Creation Date: 2/26/2002 0:00:00
Receipt Date: 20011231
Manifest ID: 21348552
Trans EPA ID: CAT080016116
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT080013352
Trans Name: Not reported
TSDf Alt EPA ID: CAT080013352
TSDf Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Meth Code: R01 - Recycler
Quantity Tons: 0.228
Waste Quantity: 60
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2016
Gen EPA ID: CAD073134777

Shipment Date: 20151218
Creation Date: 9/30/2016 18:31:57
Receipt Date: 20151231
Manifest ID: 002672166GBF
Trans EPA ID: CAD066151648
Trans Name: THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID: CAR000206086
Trans 2 Name: NORTH STATE ENVIRONMENTAL
TSDf EPA ID: TXD982560294
Trans Name: NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.4765
Waste Quantity: 953
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151218
Creation Date: 9/30/2016 18:31:57
Receipt Date: 20151231
Manifest ID: 002672166GBF
Trans EPA ID: CAD066151648
Trans Name: THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID: CAR000206086
Trans 2 Name: NORTH STATE ENVIRONMENTAL
TSDf EPA ID: TXD982560294
Trans Name: NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.028
Waste Quantity: 56

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151218
Creation Date:	9/30/2016 18:31:57
Receipt Date:	20151231
Manifest ID:	002672165GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	CAR000206086
Trans 2 Name:	NORTH STATE ENVIRONMENTAL
TSDf EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3465
Waste Quantity:	693
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151218
Creation Date:	9/30/2016 18:31:57
Receipt Date:	20151231
Manifest ID:	002672165GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	CAR000206086
Trans 2 Name:	NORTH STATE ENVIRONMENTAL
TSDf EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.285
Waste Quantity:	570
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date:	20151210
Creation Date:	3/22/2016 22:15:44
Receipt Date:	20151210
Manifest ID:	008817193FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1645
Waste Quantity:	329
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151210
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008817193FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151210
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008817193FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0085
Waste Quantity:	17
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151210
Creation Date:	9/26/2016 18:30:40
Receipt Date:	20151219
Manifest ID:	008817192FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	MAUMEE EXPRESS INC
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0415
Waste Quantity:	83
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151210
Creation Date:	9/26/2016 18:30:40
Receipt Date:	20151219
Manifest ID:	008817192FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	MAUMEE EXPRESS INC
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D008
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Tons: 0.555
Waste Quantity: 1110
Quantity Unit: P
Additional Code 1: D007
Additional Code 2: D006
Additional Code 3: D005
Additional Code 4: D004
Additional Code 5: Not reported

Shipment Date: 20151210
Creation Date: 9/26/2016 18:30:40
Receipt Date: 20151219
Manifest ID: 008817192FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID: NJD986607380
Trans 2 Name: MAUMEE EXPRESS INC
TSDf EPA ID: NED981723513
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICE INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D011
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.0955
Waste Quantity: 191
Quantity Unit: P
Additional Code 1: D008
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1995
Gen EPA ID: CAD073134777

Shipment Date: 19951218
Creation Date: 9/18/1996 0:00:00
Receipt Date: 19951227
Manifest ID: 95757157
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: ILD984908202
Trans 2 Name: Not reported
TSDf EPA ID: CAD093459485
Trans Name: Not reported
TSDf Alt EPA ID: CAD093459485
TSDf Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D039
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0144
Waste Quantity: 4
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19951213
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951220
Manifest ID: 92440570
Trans EPA ID: OHD009865825
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: R01 - Recycler
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19951213
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951220
Manifest ID: 92440570
Trans EPA ID: OHD009865825
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D009
Meth Code: R01 - Recycler
Quantity Tons: 0.12
Waste Quantity: 240
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19951213
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951220
Manifest ID: 92440570
Trans EPA ID: OHD009865825

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.0035
Waste Quantity: 7
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19951213
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951220
Manifest ID: 92440570
Trans EPA ID: OHD009865825
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D006
Meth Code: R01 - Recycler
Quantity Tons: 0.0075
Waste Quantity: 15
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19951212
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951220
Manifest ID: 95158391
Trans EPA ID: CAD066151648
Trans Name: Not reported
Trans 2 EPA ID: MOD095038998
Trans 2 Name: Not reported
TSDf EPA ID: FLD980711071
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: F003

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Meth Code:	- Not reported
Quantity Tons:	0.1785
Waste Quantity:	357
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951212
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951220
Manifest ID:	95158391
Trans EPA ID:	CAD066151648
Trans Name:	Not reported
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	Not reported
TSDF EPA ID:	FLD980711071
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	R01 - Recycler
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951207
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951208
Manifest ID:	95616607
Trans EPA ID:	CAD982433575
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981402522
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.7714
Waste Quantity:	185
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date: 19951110
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951115
Manifest ID: 95544121
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D009
Meth Code: R01 - Recycler
Quantity Tons: 0.0005
Waste Quantity: 1
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19951110
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951115
Manifest ID: 95544121
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D009
Meth Code: R01 - Recycler
Quantity Tons: 0.005
Waste Quantity: 10
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2015
Gen EPA ID: CAD073134777

Shipment Date: 20151218
Creation Date: 9/30/2016 18:31:57
Receipt Date: 20151231
Manifest ID: 002672165GBF
Trans EPA ID: CAD066151648

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	CAR000206086
Trans 2 Name:	NORTH STATE ENVIRONMENTAL
TSDf EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.285
Waste Quantity:	570
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151218
Creation Date:	9/30/2016 18:31:57
Receipt Date:	20151231
Manifest ID:	002672165GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	CAR000206086
Trans 2 Name:	NORTH STATE ENVIRONMENTAL
TSDf EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3465
Waste Quantity:	693
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151218
Creation Date:	9/30/2016 18:31:57
Receipt Date:	20151231
Manifest ID:	002672166GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	CAR000206086
Trans 2 Name:	NORTH STATE ENVIRONMENTAL
TSDf EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.028
Waste Quantity: 56
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151218
Creation Date: 9/30/2016 18:31:57
Receipt Date: 20151231
Manifest ID: 002672166GBF
Trans EPA ID: CAD066151648
Trans Name: THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID: CAR000206086
Trans 2 Name: NORTH STATE ENVIRONMENTAL
TSDf EPA ID: TXD982560294
Trans Name: NSSI RECOVERY SERVICES INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.4765
Waste Quantity: 953
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151210
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008817193FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: CLEAN HARBORS WILMINGTON LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.149
Waste Quantity: 298
Quantity Unit: P

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151210
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008817193FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: CLEAN HARBORS WILMINGTON LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 513 - Empty containers less than 30 gallons
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.0035
Waste Quantity: 7
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151210
Creation Date: 3/5/2016 22:15:15
Receipt Date: 20151210
Manifest ID: 008817198FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: CLEAN HARBORS WILMINGTON LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: F003
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.24
Waste Quantity: 480
Quantity Unit: P
Additional Code 1: D002
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151210

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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008817193FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0085
Waste Quantity:	17
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151210
Creation Date:	3/5/2016 22:15:15
Receipt Date:	20151210
Manifest ID:	008817198FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.057
Waste Quantity:	114
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151210
Creation Date:	3/5/2016 22:15:15
Receipt Date:	20151210
Manifest ID:	008817198FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

TSDF EPA ID: CAD044429835
Trans Name: CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: U188
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.1155
Waste Quantity: 231
Quantity Unit: P
Additional Code 1: F003
Additional Code 2: D022
Additional Code 3: D001
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2003
Gen EPA ID: CAD073134777

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22492239
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDF EPA ID: AZD049318009
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.004
Waste Quantity: 8
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22492239
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDF EPA ID: AZD049318009
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported

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EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.0025
Waste Quantity: 5
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22492239
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: AZD049318009
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported

Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.0025
Waste Quantity: 5
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22492239
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: AZD049318009
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported

Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.002
Waste Quantity: 4
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported

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THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22492239
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: AZD049318009
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: R01 - Recycler
Quantity Tons: 0.018
Waste Quantity: 36
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22739039
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: AZD049318009
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: - Not reported
Quantity Tons: 0.1225
Waste Quantity: 245
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22739039
Trans EPA ID: MAD039322250
Trans Name: Not reported

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EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: AZD049318009
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: - Not reported
Quantity Tons: 0.135
Waste Quantity: 270
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22739039
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: AZD049318009
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: - Not reported
Quantity Tons: 0.045
Waste Quantity: 90
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22739039
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: AZD049318009
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: - Not reported

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THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22739039
Trans EPA ID:	MAD039322250
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	AZD049318009
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	- Not reported
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2007
Gen EPA ID:	CAD073134777
Shipment Date:	20071221
Creation Date:	5/21/2008 18:30:15
Receipt Date:	20071226
Manifest ID:	000072240GBF
Trans EPA ID:	CAR000181891
Trans Name:	BDC - SWS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	AZC950823111
Trans Name:	LA PAZ LANDFILL
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	16
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported

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THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071210
Creation Date:	5/21/2008 18:30:15
Receipt Date:	20071219
Manifest ID:	001820340FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D011
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D004
Additional Code 4:	D002
Additional Code 5:	Not reported
Shipment Date:	20071210
Creation Date:	5/21/2008 18:30:15
Receipt Date:	20071219
Manifest ID:	001820340FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071210
Creation Date:	5/21/2008 18:30:15
Receipt Date:	20071219
Manifest ID:	001820340FLE

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THE HABIT BURGER GRILL (Continued)

S113001634

Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.14
Waste Quantity:	280
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071210
Creation Date:	7/16/2008 18:30:34
Receipt Date:	20071231
Manifest ID:	001820339FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	TXD982290140
Trans Name:	CLEAN HARBORS LA PORTE LP
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	U078
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071210
Creation Date:	7/16/2008 18:30:34
Receipt Date:	20071231
Manifest ID:	001820339FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	TXD982290140
Trans Name:	CLEAN HARBORS LA PORTE LP
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported

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THE HABIT BURGER GRILL (Continued)

S113001634

Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H121 - Neutralization Only
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071205
Creation Date:	7/16/2008 18:30:34
Receipt Date:	20071210
Manifest ID:	001820336FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	2.8875
Waste Quantity:	5775
Quantity Unit:	P
Additional Code 1:	F002
Additional Code 2:	D022
Additional Code 3:	D002
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20071205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001820336FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D011
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0725
Waste Quantity:	145
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D002
Additional Code 3:	D001

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THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071205
Creation Date:	7/16/2008 18:30:34
Receipt Date:	20071210
Manifest ID:	001820336FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0225
Waste Quantity:	45
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001820336FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2017
Gen EPA ID:	CAD073134777
Shipment Date:	20171213
Creation Date:	8/10/2018 18:30:35

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THE HABIT BURGER GRILL (Continued)

S113001634

Receipt Date: 20171213
Manifest ID: 010539538FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: CLEAN HARBORS WILMINGTON LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 10.94625
Waste Quantity: 2625
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171208
Creation Date: 8/1/2018 18:31:15
Receipt Date: 20171213
Manifest ID: 007655260FLE
Trans EPA ID: CAR000049064
Trans Name: ECTI
Trans 2 EPA ID: CAR000045963
Trans 2 Name: ARO TRUCKING
TSDf EPA ID: AZC950823111
Trans Name: LA PAZ COUNTY LANDFILL
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 151 - Asbestos-containing waste
RCRA Code: Not reported
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)

Quantity Tons: 9.2
Waste Quantity: 40
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171206
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 011240479FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MOR000501973
Trans 2 Name: R & R TRUCKING INC
TSDf EPA ID: ARD069748192

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THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.145
Waste Quantity:	290
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171206
Creation Date:	8/21/2018 18:30:09
Receipt Date:	20171215
Manifest ID:	011542835FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.19
Waste Quantity:	380
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171206
Creation Date:	11/5/2018 18:33:28
Receipt Date:	20180105
Manifest ID:	011240473FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MOR000501973
Trans 2 Name:	R & R TRUCKING
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.7295
Waste Quantity:	1459

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THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Unit:	P
Additional Code 1:	D038
Additional Code 2:	D022
Additional Code 3:	D002
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20171206
Creation Date:	10/6/2018 18:30:15
Receipt Date:	20171215
Manifest ID:	011240474FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDf EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.325
Waste Quantity:	650
Quantity Unit:	P
Additional Code 1:	F002
Additional Code 2:	D038
Additional Code 3:	D022
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20171206
Creation Date:	10/6/2018 18:30:15
Receipt Date:	20171215
Manifest ID:	011240474FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDf EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D022
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.082
Waste Quantity:	164
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171206
Creation Date:	10/6/2018 18:30:15

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Receipt Date: 20171215
Manifest ID: 011240474FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: ALR000007237
Trans 2 Name: ACTION RESOURCES INC
TSDf EPA ID: NED981723513
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D001
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.7
Waste Quantity: 1400
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171206
Creation Date: 10/6/2018 18:30:15
Receipt Date: 20171215
Manifest ID: 011240474FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: ALR000007237
Trans 2 Name: ACTION RESOURCES INC
TSDf EPA ID: NED981723513
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D001
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.2975
Waste Quantity: 595
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171206
Creation Date: 8/7/2018 18:30:34
Receipt Date: 20171215
Manifest ID: 011240475FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD059494310
Trans Name: CLEAN HARBORS SAN JOSE LLC
TSDf Alt EPA ID: Not reported

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: F003
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.09
Waste Quantity: 180
Quantity Unit: P
Additional Code 1: F002
Additional Code 2: D038
Additional Code 3: D022
Additional Code 4: D001
Additional Code 5: Not reported

Additional Info:

Year: 2009
Gen EPA ID: CAD073134777

Shipment Date: 20091211
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 003012742FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D011
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.022
Waste Quantity: 44
Quantity Unit: P
Additional Code 1: D002
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20091211
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 003012742FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: U188
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel

Map ID
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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Tons:	0.201
Waste Quantity:	402
Quantity Unit:	P
Additional Code 1:	F002
Additional Code 2:	D022
Additional Code 3:	D005
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091211
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003012742FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	U134
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.019
Waste Quantity:	38
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091211
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003012742FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D011
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0325
Waste Quantity:	65
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date: 20091211
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 003012742FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.0865
Waste Quantity: 173
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20091211
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 003012742FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D004
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.1765
Waste Quantity: 353
Quantity Unit: P
Additional Code 1: D002
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20091211
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 003012742FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDf EPA ID: UTD981552177

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D004
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: D002
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20091211
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 003012742FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D003
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.008
Waste Quantity: 16
Quantity Unit: P
Additional Code 1: D002
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20091211
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 003012742FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.033
Waste Quantity: 66
Quantity Unit: P

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EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091211
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003012742FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D007
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.148
Waste Quantity:	296
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2012
Gen EPA ID:	CAD073134777
Shipment Date:	20130103
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000135151MWI
Trans EPA ID:	Not reported
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	Not reported
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 5:	Not reported
Shipment Date:	20130103
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000135151MWI
Trans EPA ID:	Not reported
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	Not reported
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130103
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000135151MWI
Trans EPA ID:	Not reported
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	Not reported
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130103
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000135151MWI
Trans EPA ID:	Not reported

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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	Not reported
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0295
Waste Quantity:	59
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130103
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000135151MWWI
Trans EPA ID:	Not reported
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	Not reported
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	U138
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130103
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000135151MWWI
Trans EPA ID:	Not reported
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	Not reported
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported

Map ID
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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121220
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006112835FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESS WAY
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D011
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.1075
Waste Quantity:	215
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121220
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006112835FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESS WAY
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D011
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D001

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EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121220
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006112835FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESS WAY
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P098
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D003
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121220
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006112835FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESS WAY
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:
Year: 1998
Gen EPA ID: CAD073134777

Shipment Date: 19981222

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Creation Date: 2/26/1999 0:00:00
Receipt Date: 19990106
Manifest ID: 98350654
Trans EPA ID: DER000000968
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.072
Waste Quantity: 20
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19981222
Creation Date: 2/26/1999 0:00:00
Receipt Date: 19990106
Manifest ID: 98350654
Trans EPA ID: DER000000968
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD044429835
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.072
Waste Quantity: 20
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19981214
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 98435557
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported

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EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.0485
Waste Quantity: 97
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19981214
Creation Date: 4/20/1999 0:00:00
Receipt Date: 19981218
Manifest ID: 98435557
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD050806850
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 261 - Not reported
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.3272
Waste Quantity: 297
Quantity Unit: K
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19981214
Creation Date: 4/20/1999 0:00:00
Receipt Date: 19981218
Manifest ID: 98435557
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD050806850
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D004
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0435
Waste Quantity: 87
Quantity Unit: P
Additional Code 1: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981214
Creation Date:	4/20/1999 0:00:00
Receipt Date:	19981218
Manifest ID:	98435557
Trans EPA ID:	SCD987574647
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD050806850
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981214
Creation Date:	2/8/1999 0:00:00
Receipt Date:	19981217
Manifest ID:	98473508
Trans EPA ID:	CAD982433575
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD981402522
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD981402522
TSDf Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.5004
Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981214
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	98435557

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: P105
Meth Code: - Not reported
Quantity Tons: 0.004
Waste Quantity: 8
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19981214
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 98435557
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.002
Waste Quantity: 4
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19981214
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 98435557
Trans EPA ID: SCD987574647
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

RCRA Code: D002
Meth Code: - Not reported
Quantity Tons: 0.027
Waste Quantity: 54
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2006
Gen EPA ID: CAD073134777

Shipment Date: 20061208
Creation Date: 10/30/2008 18:30:32
Receipt Date: 20070104
Manifest ID: 000500919JJK
Trans EPA ID: CAD008364432
Trans Name: RHO-CHEM
Trans 2 EPA ID: CAT000624247
Trans 2 Name: MP ENVIRONMENTAL
TSDf EPA ID: WAD991281767
Trans Name: BURLINGTON ENVIRONMENTAL INC KENT FACILITY
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: D002
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.006
Waste Quantity: 12
Quantity Unit: P
Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20061208
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 000500919JJK
Trans EPA ID: CAD008364432
Trans Name: RHO-CHEM
Trans 2 EPA ID: CAT000624247
Trans 2 Name: MP ENVIRONMENTAL
TSDf EPA ID: WAD991281767
Trans Name: BURLINGTON ENVIRONMENTAL INC KENT FACILITY
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 121 - Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc
RCRA Code: D011
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

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MAP FINDINGS

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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Tons:	0.095
Waste Quantity:	190
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061208
Creation Date:	10/30/2008 18:30:32
Receipt Date:	20070104
Manifest ID:	000500919JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	MP ENVIRONMENTAL
TSDF EPA ID:	WAD991281767
Trans Name:	BURLINGTON ENVIRONMENTAL INC KENT FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0065
Waste Quantity:	13
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061208
Creation Date:	10/30/2008 18:30:32
Receipt Date:	20070104
Manifest ID:	000500919JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	MP ENVIRONMENTAL
TSDF EPA ID:	WAD991281767
Trans Name:	BURLINGTON ENVIRONMENTAL INC KENT FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

Map ID
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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061208
Creation Date:	7/13/2007 18:30:33
Receipt Date:	20061211
Manifest ID:	000500920JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061208
Creation Date:	7/13/2007 18:30:33
Receipt Date:	20061211
Manifest ID:	000500920JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.203
Waste Quantity:	406
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061208
Creation Date:	7/13/2007 18:30:33
Receipt Date:	20061211
Manifest ID:	000500920JJK

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans EPA ID: CAD008364432
Trans Name: RHO-CHEM
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD008364432
Trans Name: RHO-CHEM CORPORATION
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code: D002
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.005
Waste Quantity: 10
Quantity Unit: P
Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20061208
Creation Date: 7/13/2007 18:30:33
Receipt Date: 20061211
Manifest ID: 000500920JJK
Trans EPA ID: CAD008364432
Trans Name: RHO-CHEM
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD008364432
Trans Name: RHO-CHEM CORPORATION
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D027
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.039
Waste Quantity: 78
Quantity Unit: P
Additional Code 1: D022
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20061208
Creation Date: 10/30/2008 18:30:32
Receipt Date: 20070104
Manifest ID: 000500919JJK
Trans EPA ID: CAD008364432
Trans Name: RHO-CHEM
Trans 2 EPA ID: CAT000624247
Trans 2 Name: MP ENVIRONMENTAL
TSDf EPA ID: WAD991281767
Trans Name: BURLINGTON ENVIRONMENTAL INC KENT FACILITY
TSDf Alt EPA ID: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

TSDf Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061208
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000500919JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	MP ENVIRONMENTAL
TSDf EPA ID:	WAD991281767
Trans Name:	BURLINGTON ENVIRONMENTAL INC KENT FACILITY
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2002
Gen EPA ID:	CAD073134777
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21783619
Trans EPA ID:	MAD039322250
Trans Name:	Not reported
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	Not reported
TSDf EPA ID:	NED981723513
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D012

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Meth Code: - Not reported
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 21783820
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002

Meth Code: - Not reported
Quantity Tons: 0.016
Waste Quantity: 32
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 21783820
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001

Meth Code: - Not reported
Quantity Tons: 0.066
Waste Quantity: 132
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Map ID
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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 21783820
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: - Not reported
Quantity Tons: 0.007
Waste Quantity: 14
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 21783820
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: - Not reported
Quantity Tons: 0.006
Waste Quantity: 12
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 21783820
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	725 - Liquids with mercury > 20 mg/l
RCRA Code:	D009
Meth Code:	- Not reported
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21783820
Trans EPA ID:	MAD039322250
Trans Name:	Not reported
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	Not reported
TSDF EPA ID:	NED981723513
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.28
Waste Quantity:	560
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21783820
Trans EPA ID:	MAD039322250
Trans Name:	Not reported
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	Not reported
TSDF EPA ID:	NED981723513
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 21783820
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D004
Meth Code: - Not reported
Quantity Tons: 0.12
Waste Quantity: 240
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 21783820
Trans EPA ID: MAD039322250
Trans Name: Not reported
Trans 2 EPA ID: NED986382133
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D001
Meth Code: - Not reported
Quantity Tons: 0.4675
Waste Quantity: 935
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1994
Gen EPA ID: CAD073134777

Map ID
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EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date: 19941220
Creation Date: 3/28/1996 0:00:00
Receipt Date: 19950103
Manifest ID: 95100742
Trans EPA ID: CAD066151648
Trans Name: Not reported
Trans 2 EPA ID: MOD095038998
Trans 2 Name: Not reported
TSDf EPA ID: FLD980711071
Trans Name: Not reported
TSDf Alt EPA ID: FLD980711071
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: F003
Meth Code: R01 - Recycler
Quantity Tons: 0.366
Waste Quantity: 732
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19941220
Creation Date: 3/28/1996 0:00:00
Receipt Date: 19950103
Manifest ID: 95100742
Trans EPA ID: CAD066151648
Trans Name: Not reported
Trans 2 EPA ID: MOD095038998
Trans 2 Name: Not reported
TSDf EPA ID: FLD980711071
Trans Name: Not reported
TSDf Alt EPA ID: FLD980711071
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: F003
Meth Code: - Not reported
Quantity Tons: 0.1655
Waste Quantity: 331
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19941219
Creation Date: 3/28/1996 0:00:00
Receipt Date: 19941220
Manifest ID: 92591198
Trans EPA ID: CAD052606324
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD067786749

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: Not reported
TSDf Alt EPA ID: CAD067786749
TSDf Alt Name: Not reported
Waste Code Description: 151 - Asbestos-containing waste
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 3.3712
Waste Quantity: 4
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19941214
Creation Date: 3/28/1996 0:00:00
Receipt Date: 19941220
Manifest ID: 92839311
Trans EPA ID: CAL000048121
Trans Name: Not reported
Trans 2 EPA ID: CAD983668583
Trans 2 Name: Not reported
TSDf EPA ID: CAL000027741
Trans Name: Not reported
TSDf Alt EPA ID: CAL000027741
TSDf Alt Name: Not reported
Waste Code Description: 151 - Asbestos-containing waste
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 0.75
Waste Quantity: 1500
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19941212
Creation Date: 3/28/1996 0:00:00
Receipt Date: 19941220
Manifest ID: 93361658
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: CAD050806850
TSDf Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D002
Meth Code: T01 - Treatment, Tank
Quantity Tons: 0.128
Waste Quantity: 256
Quantity Unit: P

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941212
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941220
Manifest ID:	93361658
Trans EPA ID:	DED980918858
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD050806850
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD050806850
TSDf Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.22
Waste Quantity:	440
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941212
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941220
Manifest ID:	93361658
Trans EPA ID:	DED980918858
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD050806850
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD050806850
TSDf Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	1.028
Waste Quantity:	2056
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941212
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941220

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Manifest ID: 93361658
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: CAD050806850
TSDf Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.16
Waste Quantity: 320
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19940928
Creation Date: 3/26/1996 0:00:00
Receipt Date: 19941004
Manifest ID: 93685386
Trans EPA ID: CAD982433575
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD070148432
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 541 - Photochemicals / photo processing waste
RCRA Code: D011
Meth Code: R01 - Recycler
Quantity Tons: 0.3044
Waste Quantity: 73
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19940920
Creation Date: 3/26/1996 0:00:00
Receipt Date: 19940924
Manifest ID: 92525032
Trans EPA ID: OKD981605363
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: KSD981506025
Trans Name: Not reported
TSDf Alt EPA ID: KSD981506025
TSDf Alt Name: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Waste Code Description: - Not reported
RCRA Code: D037
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.007
Waste Quantity: 14
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2013
Gen EPA ID: CAD073134777

Shipment Date: 20131219
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 006110372FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MOR000501973
Trans 2 Name: R&R
TSDf EPA ID: NED981723513
Trans Name: CLEAN HARBORS ENV SERVICES INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 122 - Alkaline solution without metals (pH > 12.5)
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.569
Waste Quantity: 1138
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20131219
Creation Date: 6/9/2014 22:15:05
Receipt Date: 20140106
Manifest ID: 006110377FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: AZR000508515
Trans 2 Name: SLT
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: F003
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.15
Waste Quantity: 300

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Unit:	P
Additional Code 1:	F002
Additional Code 2:	D022
Additional Code 3:	D002
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20131219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006110373FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.121
Waste Quantity:	242
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006110377FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	D009
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131219

Map ID
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MAP FINDINGS

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EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006110377FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.2505
Waste Quantity:	501
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	D022
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20131219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006110377FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006110377FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006110377FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D008
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.016
Waste Quantity:	32
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006110377FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D011
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.087
Waste Quantity:	174
Quantity Unit:	P
Additional Code 1:	D002

Map ID
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Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006110377FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	1993
Gen EPA ID:	CAD073134777
Shipment Date:	19931230
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19940105
Manifest ID:	93281951
Trans EPA ID:	CAL000020165
Trans Name:	Not reported
Trans 2 EPA ID:	CAD000048934
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD067786749
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD067786749
TSDf Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	5.0568
Waste Quantity:	6
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date: 19931122
Creation Date: 9/14/1995 0:00:00
Receipt Date: 19931130
Manifest ID: 92839303
Trans EPA ID: CAD066151648
Trans Name: Not reported
Trans 2 EPA ID: TND987766078
Trans 2 Name: Not reported
TSDf EPA ID: FLD980711071
Trans Name: Not reported
TSDf Alt EPA ID: FLD980711071
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: F003
Meth Code: R01 - Recycler
Quantity Tons: 0.173
Waste Quantity: 346
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19931122
Creation Date: 9/14/1995 0:00:00
Receipt Date: 19931130
Manifest ID: 92839303
Trans EPA ID: CAD066151648
Trans Name: Not reported
Trans 2 EPA ID: TND987766078
Trans 2 Name: Not reported
TSDf EPA ID: FLD980711071
Trans Name: Not reported
TSDf Alt EPA ID: FLD980711071
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: F003
Meth Code: R01 - Recycler
Quantity Tons: 0.209
Waste Quantity: 418
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19931111
Creation Date: 9/14/1995 0:00:00
Receipt Date: 19931118
Manifest ID: 93235353
Trans EPA ID: CAL000048121
Trans Name: Not reported
Trans 2 EPA ID: CAD983668583
Trans 2 Name: Not reported
TSDf EPA ID: IRC957100891

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: Not reported
TSDF Alt EPA ID: IRC957100891
TSDF Alt Name: Not reported
Waste Code Description: 151 - Asbestos-containing waste
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 2.5284
Waste Quantity: 3
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19931111
Creation Date: 9/14/1995 0:00:00
Receipt Date: 19931111
Manifest ID: 92839302
Trans EPA ID: CAD981455520
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD009007626
Trans Name: Not reported
TSDF Alt EPA ID: CAD009007626
TSDF Alt Name: Not reported
Waste Code Description: 151 - Asbestos-containing waste
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 12.642
Waste Quantity: 15
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19931025
Creation Date: 9/12/1995 0:00:00
Receipt Date: Not reported
Manifest ID: 93145044
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD050806850
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code: U122
Meth Code: - Not reported
Quantity Tons: 0.065
Waste Quantity: 130
Quantity Unit: P

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19931025
Creation Date: 9/12/1995 0:00:00
Receipt Date: Not reported
Manifest ID: 93145044
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D002
Meth Code: - Not reported
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19931025
Creation Date: 9/12/1995 0:00:00
Receipt Date: Not reported
Manifest ID: 93145044
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code: D001
Meth Code: - Not reported
Quantity Tons: 0.075
Waste Quantity: 150
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19931025
Creation Date: 9/12/1995 0:00:00
Receipt Date: Not reported

Map ID
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EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Manifest ID: 93145043
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.105
Waste Quantity: 210
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19931025
Creation Date: 9/12/1995 0:00:00
Receipt Date: Not reported
Manifest ID: 93145043
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.5
Waste Quantity: 1000
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2010
Gen EPA ID: CAD073134777

Shipment Date: 20101129
Creation Date: 2/19/2011 18:30:18
Receipt Date: 20101220
Manifest ID: 008020132JJK
Trans EPA ID: CAR000175422
Trans Name: WORLDWIDE RECOVERY SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported

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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

TSDF EPA ID:	CAD982411993
Trans Name:	AERC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0575
Waste Quantity:	115
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101029
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003402158FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.2785
Waste Quantity:	557
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101029
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003402158FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.006
Waste Quantity:	12

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101029
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003402158FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D011
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0345
Waste Quantity:	69
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101029
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003402158FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0085
Waste Quantity:	17
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101029

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003402158FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P105
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101029
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003402158FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P106
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0065
Waste Quantity:	13
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101029
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003402158FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101029
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003402158FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	U134
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.024
Waste Quantity:	48
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101029
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003402158FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.1405
Waste Quantity:	281
Quantity Unit:	P
Additional Code 1:	Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2000
Gen EPA ID: CAD073134777

Shipment Date: 20001231
Creation Date: 3/6/2001 0:00:00
Receipt Date: 20010103
Manifest ID: 20800295
Trans EPA ID: CAR000049064
Trans Name: Not reported
Trans 2 EPA ID: OKD981588791
Trans 2 Name: Not reported
TSDf EPA ID: CAT000646117
Trans Name: Not reported
TSDf Alt EPA ID: CAT000646117
TSDf Alt Name: Not reported
Waste Code Description: 611 - Contaminated soil from site clean-ups
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 67.424
Waste Quantity: 80
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20001221
Creation Date: 3/5/2001 0:00:00
Receipt Date: 20001226
Manifest ID: 20800296
Trans EPA ID: CAD000049064
Trans Name: Not reported
Trans 2 EPA ID: OKD981588791
Trans 2 Name: Not reported
TSDf EPA ID: CAT000646117
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 611 - Contaminated soil from site clean-ups
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 67.424
Waste Quantity: 80
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Map ID
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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date: 20001220
Creation Date: 3/6/2001 0:00:00
Receipt Date: 20010103
Manifest ID: 20800294
Trans EPA ID: CAR000049064
Trans Name: Not reported
Trans 2 EPA ID: OKD981588791
Trans 2 Name: Not reported
TSDf EPA ID: CAT000646117
Trans Name: Not reported
TSDf Alt EPA ID: CAT000646117
TSDf Alt Name: Not reported
Waste Code Description: 611 - Contaminated soil from site clean-ups
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 67.424
Waste Quantity: 80
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20001219
Creation Date: 3/6/2001 0:00:00
Receipt Date: 20001228
Manifest ID: 20800293
Trans EPA ID: CAR000049064
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT000646117
Trans Name: Not reported
TSDf Alt EPA ID: CAT000646117
TSDf Alt Name: Not reported
Waste Code Description: 611 - Contaminated soil from site clean-ups
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 67.424
Waste Quantity: 80
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20001218
Creation Date: 3/5/2001 0:00:00
Receipt Date: 20001226
Manifest ID: 20800292
Trans EPA ID: CAR000049064
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT000646117

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: Not reported
TSDf Alt EPA ID: CAT000646117
TSDf Alt Name: Not reported
Waste Code Description: 611 - Contaminated soil from site clean-ups
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 67.424
Waste Quantity: 80
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20001218
Creation Date: 3/6/2001 0:00:00
Receipt Date: 20001218
Manifest ID: 20800291
Trans EPA ID: CAR000049064
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT000646117
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 611 - Contaminated soil from site clean-ups
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 67.424
Waste Quantity: 80
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20001213
Creation Date: 3/5/2001 0:00:00
Receipt Date: 20001215
Manifest ID: 20418761
Trans EPA ID: CAD982495608
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: NED981723513
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 611 - Contaminated soil from site clean-ups
RCRA Code: D012
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 13.4848
Waste Quantity: 16
Quantity Unit: Y

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001211
Creation Date:	1/24/2001 0:00:00
Receipt Date:	Not reported
Manifest ID:	97448140
Trans EPA ID:	CAR000075424
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	AZD980892731
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.834
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001211
Creation Date:	1/24/2001 0:00:00
Receipt Date:	20001211
Manifest ID:	98394536
Trans EPA ID:	CAR000075424
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD088504881
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.8
Waste Quantity:	3600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001211
Creation Date:	5/16/2001 0:00:00
Receipt Date:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Manifest ID: 20491801
Trans EPA ID: CAL000095064
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT000646117
Trans Name: Not reported
TSDf Alt EPA ID: CAT000646117
TSDf Alt Name: Not reported
Waste Code Description: 513 - Empty containers less than 30 gallons
RCRA Code: P004
Meth Code: - Not reported
Quantity Tons: 67.424
Waste Quantity: 80
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2014
Gen EPA ID: CAD073134777

Shipment Date: 20141219
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008067108FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MOR000501973
Trans 2 Name: R & R
TSDf EPA ID: ARD069748192
Trans Name: CLEAN HARBORS EL DORADO LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D009
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.038
Waste Quantity: 76
Quantity Unit: P
Additional Code 1: D002
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20141219
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008067108FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MOR000501973
Trans 2 Name: R & R

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

TSDF EPA ID: ARD069748192
Trans Name: CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.005
Waste Quantity: 10
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20141219
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008067108FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MOR000501973
Trans 2 Name: R & R
TSDF EPA ID: ARD069748192
Trans Name: CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.003
Waste Quantity: 6
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20141219
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008067108FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MOR000501973
Trans 2 Name: R & R
TSDF EPA ID: ARD069748192
Trans Name: CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D003
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.003
Waste Quantity: 6

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EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008067108FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MOR000501973
Trans 2 Name:	R & R
TSDf EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	U188
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	U007
Additional Code 2:	F002
Additional Code 3:	D022
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008067108FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MOR000501973
Trans 2 Name:	R & R
TSDf EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141219

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008067108FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MOR000501973
Trans 2 Name:	R & R
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.107
Waste Quantity:	214
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008067108FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MOR000501973
Trans 2 Name:	R & R
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008067108FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MOR000501973
Trans 2 Name:	R & R
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.0735
Waste Quantity: 147
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20141219
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008067108FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: MOR000501973
Trans 2 Name: R & R
TSDF EPA ID: ARD069748192
Trans Name: CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.007
Waste Quantity: 14
Quantity Unit: P
Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2004
Gen EPA ID: CAD073134777

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 23370505
Trans EPA ID: NJD080631369
Trans Name: ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080014079
Trans Name: ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID: CAT080014079
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D003
Meth Code: H01 - Transfer Station

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THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Tons: 0.0005
Waste Quantity: 1
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 23451264
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID: UTD988074712
Trans 2 Name: TW COMPANY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.075
Waste Quantity: 150
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 23370505
Trans EPA ID: NJD080631369
Trans Name: ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT080014079
Trans Name: ONYX ENVIRONMENTAL SERVICES LLC
TSDf Alt EPA ID: CAT080014079
TSDf Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0005
Waste Quantity: 1
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 23370505
Trans EPA ID: NJD080631369
Trans Name: ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT080014079
Trans Name: ONYX ENVIRONMENTAL SERVICES LLC
TSDf Alt EPA ID: CAT080014079
TSDf Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0005
Waste Quantity: 1
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 23370505
Trans EPA ID: NJD080631369
Trans Name: ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT080014079
Trans Name: ONYX ENVIRONMENTAL SERVICES LLC
TSDf Alt EPA ID: CAT080014079
TSDf Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0005
Waste Quantity: 1
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 23451264
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID: UTD988074712
Trans 2 Name: TW COMPANY
TSDf EPA ID: UTD981552177

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D008
Meth Code: - Not reported
Quantity Tons: 0.225
Waste Quantity: 450
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 23451264
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID: UTD988074712
Trans 2 Name: TW COMPANY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D009
Meth Code: - Not reported
Quantity Tons: 0.0025
Waste Quantity: 5
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 23451264
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID: UTD988074712
Trans 2 Name: TW COMPANY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: - Not reported
Quantity Tons: 0.0325
Waste Quantity: 65
Quantity Unit: P

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	23451264
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	UTD988074712
Trans 2 Name:	TW COMPANY
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	- Not reported
Quantity Tons:	0.0875
Waste Quantity:	175
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	23451264
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	UTD988074712
Trans 2 Name:	TW COMPANY
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	- Not reported
Quantity Tons:	1.735
Waste Quantity:	3470
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2011
Gen EPA ID:	CAD073134777

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Shipment Date: 20111110
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 004787622FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: AZR000508515
Trans 2 Name: SLT EXPRESSWAY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.0625
Waste Quantity: 125
Quantity Unit: P
Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20111110
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 004787622FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: AZR000508515
Trans 2 Name: SLT EXPRESSWAY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.003
Waste Quantity: 6
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20111110
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 004787622FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: AZR000508515
Trans 2 Name: SLT EXPRESSWAY
TSDf EPA ID: UTD981552177

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D010
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.004
Waste Quantity: 8
Quantity Unit: P
Additional Code 1: D002
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20111110
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 004787622FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: AZR000508515
Trans 2 Name: SLT EXPRESSWAY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D011
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.006
Waste Quantity: 12
Quantity Unit: P
Additional Code 1: D002
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20111110
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 004787622FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: AZR000508515
Trans 2 Name: SLT EXPRESSWAY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.0025
Waste Quantity: 5
Quantity Unit: P

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Database(s)

EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111110
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	004787622FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111110
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	004787622FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDf EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111110
Creation Date:	Not reported
Receipt Date:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Manifest ID: 004787622FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: AZR000508515
Trans 2 Name: SLT EXPRESSWAY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.003
Waste Quantity: 6
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20111110
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 004787622FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: AZR000508515
Trans 2 Name: SLT EXPRESSWAY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.03336
Waste Quantity: 8
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20111110
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 004787622FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: AZR000508515
Trans 2 Name: SLT EXPRESSWAY
TSDf EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: Not reported
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.0055
Waste Quantity: 11
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 1996
Gen EPA ID: CAD073134777

Shipment Date: 19961220
Creation Date: 5/20/1997 0:00:00
Receipt Date: 19970103
Manifest ID: 95541401
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: DED981110166
Trans 2 Name: Not reported
TSDf EPA ID: UTD981552177
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D004
Meth Code: - Not reported
Quantity Tons: 0.04
Waste Quantity: 80
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19961220
Creation Date: 5/20/1997 0:00:00
Receipt Date: 19970103
Manifest ID: 95541400
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: DED981110166
Trans 2 Name: Not reported
TSDf EPA ID: UTD981552177
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 232 - Pesticides and other waste associated with pesticide production
RCRA Code: F027
Meth Code: - Not reported
Quantity Tons: 0.007
Waste Quantity: 14

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EDR ID Number
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THE HABIT BURGER GRILL (Continued)

S113001634

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961220
Creation Date:	9/12/1997 0:00:00
Receipt Date:	19961227
Manifest ID:	95541402
Trans EPA ID:	DED980918858
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD050806850
Trans Name:	Not reported
TSDf Alt EPA ID:	CAD050806850
TSDf Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.067
Waste Quantity:	134
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961220
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19970103
Manifest ID:	95541401
Trans EPA ID:	DED980918858
Trans Name:	Not reported
Trans 2 EPA ID:	DED981110166
Trans 2 Name:	Not reported
TSDf EPA ID:	UTD981552177
Trans Name:	Not reported
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D006
Meth Code:	- Not reported
Quantity Tons:	0.0445
Waste Quantity:	89
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961220
Creation Date:	5/20/1997 0:00:00

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Receipt Date: 19970103
Manifest ID: 95541401
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: DED981110166
Trans 2 Name: Not reported
TSDf EPA ID: UTD981552177
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D003
Meth Code: - Not reported
Quantity Tons: 0.0085
Waste Quantity: 17
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19961220
Creation Date: 5/20/1997 0:00:00
Receipt Date: 19961227
Manifest ID: 95541403
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: D009
Meth Code: R01 - Recycler
Quantity Tons: 0.0055
Waste Quantity: 11
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19961220
Creation Date: 9/12/1997 0:00:00
Receipt Date: 19961227
Manifest ID: 95541402
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD050806850
Trans Name: Not reported
TSDf Alt EPA ID: CAD050806850

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1075
Waste Quantity:	215
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961220
Creation Date:	9/12/1997 0:00:00
Receipt Date:	19961227
Manifest ID:	95541402
Trans EPA ID:	DED980918858
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D007
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1275
Waste Quantity:	255
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961220
Creation Date:	9/12/1997 0:00:00
Receipt Date:	19961227
Manifest ID:	95541402
Trans EPA ID:	DED980918858
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.748
Waste Quantity:	1496
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19961220
Creation Date: 5/20/1997 0:00:00
Receipt Date: 19970103
Manifest ID: 95541401
Trans EPA ID: DED980918858
Trans Name: Not reported
Trans 2 EPA ID: DED981110166
Trans 2 Name: Not reported
TSDf EPA ID: UTD981552177
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: D007
Meth Code: - Not reported
Quantity Tons: 0.032
Waste Quantity: 64
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

NPDES:

Name: UCR PARKING STRUCTURE 1
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA
Facility Status: Terminated
NPDES Number: CAS000002
Region: 8
Agency Number: 0
Regulatory Measure ID: 514908
Place ID: Not reported
Order Number: 2009-0009-DWQ
WDID: 8 33C389246
Regulatory Measure Type: Enrollee
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 01/27/2020
Termination Date Of Regulatory Measure: 09/09/2021
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 900 University Avenue
Discharge Name: University of California Riverside
Discharge City: Riverside
Discharge State: California
Discharge Zip: 92507
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported

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Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Operator Zip: Not reported

CERS:

Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92503
Site ID: 501384
CERS ID: 110000609761
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc: Environmental Contact
Entity Name: ED TRUJILLO
Entity Title: INTEGRATED WASTE OPS. SPE
Affiliation Address: 900 UNIVERSITY AVE EHAS
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: AMANDA E GREY
Entity Title: ENVIRONMENTAL PROGRAMS MANAGER
Affiliation Address: 900 UNIVERSITY AVENUE
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: THE HABIT BURGER GRILL
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
Site ID: 566443
CERS ID: 10843507
CERS Description: Chemical Storage Facilities

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-01-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector D. Young
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: Anel Rodriguez
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 17320 Red Hill Ave, suite 140
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92614
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Anel Rodriguez
Entity Title: Facilities Administrative Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: THE HABIT RESTAURANTS, LLC
Entity Title: Not reported
Affiliation Address: 17320 Red Hill Ave, suite 140
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92614
Affiliation Phone: (949) 851-8881,

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Parent Corporation
Entity Name: The Habit Restaurants, LLC.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: FACILITIES DEPARTMENT
Entity Title: Not reported
Affiliation Address: 17320 Red Hill Ave, suite 140

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92614
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: The Habit Burger Grill
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 827-7329,

HWTS:

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 900 UNIVERSITY AVE
Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92521
EPA ID: CAD073134777
Inactive Date: Not reported
Create Date: 07/23/1982
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 900 UNIVERSITY AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: RIVERSIDE, CA 925210000
Owner Name: UNIVERSITY OF CALIFORNIA,
Owner Address: 900 UNIVERSITY AVE
Owner Address 2: Not reported
Owner City,State,Zip: RIVERSIDE, CA 925210000
Contact Name: JUAN CARLOS SANCHEZ
Contact Address: 900 UNIVERSITY AVENUE
Contact Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92521
Facility Status: Active
Facility Type: PERMANENT
Category: FEDERAL
Latitude: 33.975588
Longitude: -117.331169

NAICS:

EPA ID: CAD073134777
Create Date: 2002-03-14 16:36:26.000
NAICS Code: 61131
NAICS Description: Colleges, Universities, and Professional Schools
Issued EPA ID Date: 1982-07-23 00:00:00
Inactive Date: Not reported
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Facility Address: 900 UNIVERSITY AVE
Facility Address 2: Not reported
Facility City: RIVERSIDE
Facility County: Not reported
Facility State: CA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HABIT BURGER GRILL (Continued)

S113001634

Facility Zip: 925210001

Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Address: 900 UNIVERSITY AVENUE
Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92521
EPA ID: CAC002926170
Inactive Date: 12/01/2017
Create Date: 08/31/2017
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 900 UNIVERSITY AVENUE
Mailing Address 2: Not reported
Mailing City,State,Zip: RIVERSIDE, CA 92521
Owner Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Owner Address: 900 UNIVERSITY AVENUE
Owner Address 2: Not reported
Owner City,State,Zip: RIVERSIDE, CA 92521
Contact Name: UNIVERSITY OF CALIFORNIA RIVERSIDE
Contact Address: 900 UNIVERSITY AVENUE
Contact Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92521
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 33.975588
Longitude: -117.331169

A23
Target
Property

900 UNIVERSITY AVE
RIVERSIDE, CA 92521

CHMIRS S118736696
N/A

Site 23 of 31 in cluster A

Actual:
1031 ft.

CHMIRS:
Name: Not reported
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92521
OES Incident Number: 16-0125
OES notification: 01/06/2016
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S118736696

Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	CHEMICAL
Measure:	Gal(s)
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1430
Year:	2016
Agency:	University of California Riverside
Incident Date:	01/06/2016
Admin Agency:	Riverside City Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	R11 Refrigerant
Quantity Released:	100
Unknown:	Not reported
Substance #2:	Refrigerator oil 10
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Unknown
Fatals:	No
Comments:	Not reported
Description:	Caller states a valve was found open on a tank causing the release of 100 gals of R11 refrigerant and 10 gals of refrigerant oil onto the ground. The release has been contained and cleanup has been completed. No waterways were

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S118736696

impacted.

A24
Target
Property

UCR
900 UNIVERSITY AVE
RIVERSIDE, CA 92507

FINDS 1023329079
N/A

Site 24 of 31 in cluster A

Actual:
1031 ft.

FINDS:
Registry ID: 110066235201

Click Here for FRS Facility Detail Report:
Environmental Interest/Information System:
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A25
Target
Property

900 UNIVERSITY AVE.
RIVERSIDE, CA 92521

ERNS 2015121706
N/A

Site 25 of 31 in cluster A

Actual:
1031 ft.

Incident Commons:
NRC Report #: 1121706
Description of Incident: CALLER IS REPORTING A DISCHARGE OF USED MOTOR OIL (LESS THAN 1 GALLON) FROM AN OIL COLLECTION DRUM DUE TO HOSE CONNECTED TO A FITTING CAME DISCONNECTED.
Type of Incident: STORAGE TANK
Incident Cause: EQUIPMENT FAILURE
Incident Date Time: 2015-07-02 09:30:00
Incident DTG: OCCURRED
Incident Location: Not reported
Loaction Address: 900 UNIVERSITY AVE.
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: RIVERSIDE
Location State: CA
Location County: RIVERSIDE
Location Zip: 92521
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2015121706

Incidents:

NRC Report #:	1121706
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	Not reported
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	U
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	OIL COLLECTION DRUM
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	20
Capacity of Tank Units:	GALLON(S)
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2015121706

Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	1121706
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2015121706

Media Interest: UNKNOWN
Medium Desc: WATER
Additional Medium Info: / SANITARY SEWER
Body of Water: SANITARY SEWER
Tributary of: Not reported
Release Secured: Y
Estimated Duration of Release: Not reported
Release rate: Not reported
Desc Remedial Action: CLAY ABSORBENT WAS APPLIED, ENVIRONMENTAL CLEAN UP CONTRACTOR WAS CALLED THEY HYDRO-BLASTED AND COLLECTED IT WITH VAC TRUCK.

State Agency on Scene: Not reported
State Agency Report Number: 15-3788
Other Agency Notified: Not reported
Weather Conditions: SUNNY
Air Temperature: Not reported
Wind Speed: Not reported
Wind Direction: Not reported
Water Supply Contaminated: U
Sheen Size: Not reported
Sheen Color: Not reported
Direction of Sheen Travel: Not reported
Sheen Odor Description: Not reported
Wave Condition: Not reported
Current Speed: Not reported
Current Direction: Not reported
Water Temperature: Not reported
Track Close Dir: Not reported
Empl Fatality: Not reported
Pass Fatality: Not reported
Community Impact: Not reported
Wind Speed Unit: Not reported
Employee Injuries: Not reported
Passenger Injuries: Not reported
Occupant Fatality: Not reported
Current Speed Unit: Not reported
Road Closure Units: Not reported
Track CLosure Units: Not reported
Sheen Size Units: Not reported
Additional Info: Not reported
State Agency Notified: CA OES, CITY FIRE DEPT
Federal Agency Notified: Not reported
nearest River Mile Marker: Not reported
Sheen Size Length: Not reported
Sheen Size Length Units: Not reported
Sheen Size Width: Not reported
Sheen Size Width Units: Not reported
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: NO

Calls:
NRC Report #: 1121706
Site ID: 20151121706
Date Time Received: 2015-07-02 18:55:02
Date Time Complete: 2015-07-02 19:00:37

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

2015121706

Call Type: INC
 Responsible Company: UNIVERSITY OF CALIFORNIA AT RIVERSIDE
 Responsible Org Type: OTHER
 Responsible City: RIVERSIDE
 Responsible State: CA
 Responsible Zip: 92521
 On Behalf: Not reported
 Source: TELEPHONE

Material Involved:
 NRC Report #: 1121706
 Chris Code: OMT
 Case Number: 000000-00-0
 UN Number: Not reported
 Amount of Material: 1
 Unit of Measure: GALLON(S)
 Name of Material: OIL, MISC: MOTOR
 If Reached Water: YES
 Amount in Water: 1
 Unit of Measure Reach Water: GALLON(S)

**A26
 Target
 Property**

**UCR PARKING STRUCTURE 1
 900 UNIVERSITY AVENUE PARKING LOT 13
 RIVERSIDE, CA CA**

**CIWQS S125494908
 N/A**

Site 26 of 31 in cluster A

**Actual:
 1031 ft.**

CIWQS:
 Name: UCR PARKING STRUCTURE 1
 Address: 900 UNIVERSITY AVENUE PARKING LOT 13
 City,State,Zip: RIVERSIDE, CA CA
 Agency: University of California Riverside
 Agency Address: 900 University Avenue, Riverside, CA 92507
 Place/Project Type: Construction - Other: School Parking Structure
 SIC/NAICS: Not reported
 Region: 8
 Program: CONSTW
 Regulatory Measure Status: Terminated
 Regulatory Measure Type: Storm water construction
 Order Number: 2009-0009-DWQ
 WDID: 8 33C389246
 NPDES Number: CAS000002
 Adoption Date: Not reported
 Effective Date: 01/27/2020
 Termination Date: 09/09/2021
 Expiration/Review Date: Not reported
 Design Flow: Not reported
 Major/Minor: Not reported
 Complexity: Not reported
 TTWQ: Not reported
 Enforcement Actions within 5 years: 1
 Violations within 5 years: 1
 Latitude: 33.974972
 Longitude: -117.31918

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A27 **UCR STUDENT SUCCESS CENTER**
Target **900 UNIVERSITY AVENUE**
Property **RIVERSIDE, CA 92521**

NPDES **S125494909**
CIWQS **N/A**

Site 27 of 31 in cluster A

Actual:
1031 ft.

NPDES:
Name: UCR STUDENT SUCCESS CENTER
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92521
Facility Status: Terminated
NPDES Number: CAS000002
Region: 8
Agency Number: 0
Regulatory Measure ID: 513628
Place ID: Not reported
Order Number: 2009-0009-DWQ
WDID: 8 33C388838
Regulatory Measure Type: Enrollee
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 11/27/2019
Termination Date Of Regulatory Measure: 09/15/2021
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 900 University Avenue
Discharge Name: University of California Riverside
Discharge City: Riverside
Discharge State: California
Discharge Zip: 92507
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

CIWQS:
Name: UCR STUDENT SUCCESS CENTER
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92521
Agency: University of California Riverside
Agency Address: 900 University Avenue, Riverside, CA 92507
Place/Project Type: Construction
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 8 33C388838
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 11/27/2019
Termination Date: 09/15/2021
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UCR STUDENT SUCCESS CENTER (Continued)

S125494909

TTWQ: Not reported
 Enforcement Actions within 5 years: 0
 Violations within 5 years: 0
 Latitude: 33.97473
 Longitude: -117.32791

**A28
 Target
 Property**

**WEST CAMPUS SOLAR FARM
 900 UNIVERSITY AVENUE RIVERSIDE
 RIVERSIDE, CA 92507**

**CIWQS S121690779
 N/A**

Site 28 of 31 in cluster A

**Actual:
 1031 ft.**

CIWQS:
 Name: WEST CAMPUS SOLAR FARM
 Address: 900 UNIVERSITY AVENUE RIVERSIDE
 City,State,Zip: RIVERSIDE, CA 92507
 Agency: University of California Riverside
 Agency Address: 900 University Avenue, Riverside, CA 92507
 Place/Project Type: Construction - Other: Special District
 SIC/NAICS: Not reported
 Region: 8
 Program: CONSTW
 Regulatory Measure Status: Terminated
 Regulatory Measure Type: Storm water construction
 Order Number: 2009-0009-DWQ
 WDID: 8 33C368555
 NPDES Number: CAS000002
 Adoption Date: Not reported
 Effective Date: 12/20/2013
 Termination Date: 09/24/2014
 Expiration/Review Date: Not reported
 Design Flow: Not reported
 Major/Minor: Not reported
 Complexity: Not reported
 TTWQ: Not reported
 Enforcement Actions within 5 years: 0
 Violations within 5 years: 0
 Latitude: 33.97278
 Longitude: -117.33444

**A29
 Target
 Property**

**HIGHLANDER HALL DEMOLITION PROJECT
 900 UNIVERSITY AVENUE
 RIVERSIDE, CA**

**CIWQS S120029849
 N/A**

Site 29 of 31 in cluster A

**Actual:
 1031 ft.**

CIWQS:
 Name: HIGHLANDER HALL DEMOLITION PROJECT
 Address: 900 UNIVERSITY AVENUE
 City,State,Zip: RIVERSIDE, CA
 Agency: University of California Riverside
 Agency Address: 900 University Avenue, Riverside, CA 92507
 Place/Project Type: Construction - Other: institutional
 SIC/NAICS: Not reported
 Region: 8
 Program: CONSTW

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HIGHLANDER HALL DEMOLITION PROJECT (Continued)

S120029849

Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 33C378946
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	02/14/2017
Termination Date:	11/01/2019
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	33.974722
Longitude:	-117.336388

A30
Target
Property

STUDENT RECREATION CENTER EXPANSION
900 UNIVERSITY AVENUE
RIVERSIDE, CA 92507

ENVIROSTOR
CHMIRS
HWP
NPDES
CIWQS

S100221282
N/A

Site 30 of 31 in cluster A

Actual:
1031 ft.

ENVIROSTOR:

Name:	UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address:	900 UNIVERSITY AVENUE
City,State,Zip:	RIVERSIDE, CA 925210306
Facility ID:	80001663
Status:	Refer: SMBRP
Status Date:	06/03/1998
Site Code:	Not reported
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	MBR
Program Manager:	Not reported
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	61
Senate:	31
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.97888
Longitude:	-117.3281
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD073134777
Alias Type:	EPA Identification Number
Alias Name:	110000609761
Alias Type:	EPA (FRS #)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Alias Name: 80001663
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 06/03/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Remedy Selected
Completed Date: 05/16/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 06/03/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 05/23/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 06/03/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 03/30/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 05/16/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 11/06/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 07/01/1985
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 09/06/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Report
Completed Date: 10/10/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 10/10/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 03/15/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 10/10/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 09/06/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 07/20/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Implementation Report
Completed Date: 12/31/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 12/01/1990
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported

Map ID
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MAP FINDINGS

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CHMIRS:

Name: Not reported
Address: 900 UNIVERSITY
City,State,Zip: RIVERSIDE, CA 92521-0001
OES Incident Number: 099262
OES notification: Not reported
OES Date: Not reported
OES Time: Not reported
Date Completed: 11-JUN-90
Property Use: 200
Agency Id Number: 33075
Agency Incident Number: 9007873
Time Notified: 905
Time Completed: 933
Surrounding Area: 400
Estimated Temperature: 70
Property Management: S
More Than Two Substances Involved?: N
Resp Agncy Personel # Of Decontaminated: 0
Responding Agency Personel # Of Injuries: 0
Responding Agency Personel # Of Fatalities: 0
Others Number Of Decontaminated: 0
Others Number Of Injuries: 1
Others Number Of Fatalities: 0
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: STEVE EARLEY
Report Date: 13-JUN-90
Facility Telephone: 714 782-5331
Waterway Involved: Not reported
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 88-92
Agency: Not reported
Incident Date: 11-JUN-90
Admin Agency: Not reported
Amount: Not reported
Contained: Not reported
Site Type: Not reported

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

E Date:	20-MAY-91
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	N
Description:	Not reported

HWP:

EPA ID:	CAD073134777
Name:	UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address:	900 UNIVERSITY AVE
Cleanup Status:	CLOSED
Latitude:	33.97888
Longitude:	-117.3281
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Senate District:	Not reported
Assembly District:	Not reported
Public Information Officer:	Not reported
Commercial Offsite Facility Types:	Not reported
Quarterly Update:	This was an ISD facility that closed without getting an operating permit. The units consisted of container storage unit and waste pile (per part A application). The container storage unit clean closed on 2/4/92. Waste pile which seemed to be part of the Pesticides waste pits may have been referred to site mitigation see site Mit Envirostor database for more info. Corrective action events in the database could not be confirmed. Update 11/5/07: Spoke with Greg Holmes, PM of Site Mit, he does not believe Pesticides waste pits were ever RCRA units. Therefore, the waste piles may not be part of this pesticide pit cleanup. The pesticide pits were closed under site Mit and are under long term monitoring. 06/20/2018- Used 11/3/1989 Site Investigation Agreement to refer wastepile unit, which was a part of the pesticide waste pit, to cleanup for closure. Because of the annual groundwater report & Land Use Covenant, the facility can be considered closed. PM, Greg Shaffer, confirmed this information. Used
Project Manager Lead:	Not reported
Project Manager:	Not reported
Permit Type:	Not reported
Permit Effective Date:	Not reported
Permit Expiration Date:	Not reported
Calenviroscreen Score:	Not reported
Total Planned Hours:	Not reported

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Total Planned Amount: Not reported
Total Actual Hours: Not reported

Activities:

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1990-12-14 00:00:00
Type: Not reported
Title Description: PERMIT1
Due Date: Not reported
Comments: Part B Call In, Per File Chron.
Unit Names: CONTAIN1, WASTPILE1
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 11/15/1982

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1990-12-14 00:00:00
Type: Not reported
Title Description: PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1, WASTPILE1
Event Description: New Operating Permit - ADMINISTRATIVE REVIEW APPROVED
Actual Date: 10/02/1981

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1990-12-14 00:00:00
Type: Not reported
Title Description: PERMIT1
Due Date: Not reported
Comments: INTENDS/CLOSED ALL WASTE HANDLING FACILITY - Letter from UCR to DTSC officially withdrawing facility permit application. - Letter from UCR

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Unit Names: to DTSC officially withdrawing facility permit application.
CONTAIN1, WASTPILE1
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 12/14/1990

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1990-12-14 00:00:00
Type: Not reported
Title Description: PERMIT1
Due Date: Not reported
Comments: INTENDS/CLOSED ALL WASTE HANDLING FACILITY - Letter from UCR to DTSC
officially withdrawing facility permit application. - Letter from UCR
to DTSC officially withdrawing facility permit application.

Unit Names: CONTAIN1, WASTPILE1
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 02/23/1989

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1990-12-14 00:00:00
Type: Not reported
Title Description: PERMIT1
Due Date: Not reported
Comments: Part B submitted.Per file Chron

Unit Names: CONTAIN1, WASTPILE1
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 05/24/1983

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1990-12-14 00:00:00
Type: Not reported

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Title Description: PERMIT1
Due Date: Not reported
Comments: Per file Chron
Unit Names: CONTAIN1, WASTPILE1
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 11/17/1980

Closure:

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported
Type: RCRA
Title Description: Waste in Place Closure
Due Date: Not reported
Comments: Not reported
Unit Names: WASTPILE1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 12/18/2006

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure
Final Date: Not reported
Type: Not reported
Title Description: CLOSURE1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: Closure - RECEIVE CLOSURE CERTIFICATION
Actual Date: 06/12/1991

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure
Final Date: Not reported
Type: Not reported
Title Description: CLOSURE1
Due Date: Not reported

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Comments:	Not reported
Unit Names:	CONTAIN1
Event Description:	Closure - CLOSURE PLAN APPROVED
Actual Date:	12/14/1990
EPA ID:	CAD073134777
Facility Type:	Historical - Non-Operating
Facility Name:	UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Size:	Not reported
Facility Status:	CLOSED
Activity Type:	Closure
Final Date:	Not reported
Type:	Not reported
Title Description:	CLOSURE1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1
Event Description:	Closure - ISSUE CLOSURE VERIFICATION
Actual Date:	02/04/1992
EPA ID:	CAD073134777
Facility Type:	Historical - Non-Operating
Facility Name:	UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Size:	Not reported
Facility Status:	CLOSED
Activity Type:	Referred for closure to other agency
Final Date:	Not reported
Type:	RCRA
Title Description:	REFERRED TO SITE CLEANUP - CERCLA
Due Date:	Not reported
Comments:	Not reported
Unit Names:	WASTPILE1
Event Description:	Referred for closure to other agency - REFERRED FOR CLOSURE TO OTHER AGENCY
Actual Date:	11/03/1989
EPA ID:	CAD073134777
Facility Type:	Historical - Non-Operating
Facility Name:	UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Size:	Not reported
Facility Status:	CLOSED
Activity Type:	Closure
Final Date:	Not reported
Type:	Not reported
Title Description:	CLOSURE1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Event Description: Closure - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 02/06/1990

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure
Final Date: Not reported
Type: Not reported
Title Description: CLOSURE1
Due Date: Not reported
Comments: Per file Chron
Unit Names: CONTAIN1
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 10/06/1989

Alias:

EPA ID: CAD073134777
Facility Type: Historical - Non-Operating
Facility Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Facility Status: CLOSED
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Alias Type: FRS
Alias: 110000609761

NPDES:

Name: EH&S EXPANSION AND LOT 27
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 8 33C369765
Regulatory Measure Type: Construction
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Status: Terminated
Status Date: 11/03/2016
Operator Name: University of California Riverside
Operator Address: 900 University Avenue
Operator City: Riverside
Operator State: California
Operator Zip: 92507

NPDES as of 03/2018:

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 8
Regulatory Measure ID: 442991
Order Number: Not reported
Regulatory Measure Type: Construction
Place ID: Not reported
WDID: 8 33C369765
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: 09/07/2016
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 05/02/2014
Processed Date: 05/15/2014
Status: Terminated
Status Date: 11/03/2016
Place Size: 3.91
Place Size Unit: Acres
Contact: Tricia Thrasher
Contact Title: Principal Environmental Project Manager
Contact Phone: 951-827-1484
Contact Phone Ext: Not reported
Contact Email: tricia.thrasher@ucr.edu
Operator Name: University of California Riverside
Operator Address: 900 University Avenue
Operator City: Riverside
Operator State: California
Operator Zip: 92507
Operator Contact: Tricia Thrasher
Operator Contact Title: Principal Environmental Project Manager
Operator Contact Phone: 951-827-1484
Operator Contact Phone Ext: Not reported
Operator Contact Email: tricia.thrasher@ucr.edu
Operator Type: Other
Developer: University of California Riverside
Developer Address: 900 University Avenue
Developer City: Riverside
Developer State: California
Developer Zip: 92507
Developer Contact: Blythe Wilson
Developer Contact Title: Project Manager
Constype Linear Utility Ind: N

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EDR ID Number
EPA ID Number

STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commercial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Lake Evans, Santa Ana River
Certifier:	George MacMullin
Certifier Title:	Principal Environmental Project Manager
Certification Date:	29-AUG-16
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	442991
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 33C369765
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/15/2014
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	09/07/2016
Discharge Name:	University of California Riverside
Discharge Address:	900 University Avenue
Discharge City:	Riverside
Discharge State:	California
Discharge Zip:	92507
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commercial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported
Constype Other Description: Not reported
Constype Other Ind: Not reported
Constype Recons Ind: Not reported
Constype Residential Ind: Not reported
Constype Transport Ind: Not reported
Constype Utility Description: Not reported
Constype Utility Ind: Not reported
Constype Water Sewer Ind: Not reported
Dir Discharge Uswater Ind: Not reported
Receiving Water Name: Not reported
Certifier: Not reported
Certifier Title: Not reported
Certification Date: Not reported
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

Name: HIGHLANDER HALL DEMOLITION PROJECT
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA
Facility Status: Terminated
NPDES Number: CAS000002
Region: 8
Agency Number: 0
Regulatory Measure ID: 482995
Place ID: Not reported
Order Number: 2009-0009-DWQ

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

WDID: 8 33C378946
Regulatory Measure Type: Enrollee
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 02/14/2017
Termination Date Of Regulatory Measure: 11/01/2019
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 900 University Avenue
Discharge Name: University of California Riverside
Discharge City: Riverside
Discharge State: California
Discharge Zip: 92507
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 8
Regulatory Measure ID: 482995
Order Number: Not reported
Regulatory Measure Type: Construction
Place ID: Not reported
WDID: 8 33C378946
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 01/30/2017
Processed Date: 02/14/2017
Status: Active
Status Date: 02/14/2017
Place Size: 1.56
Place Size Unit: Acres
Contact: Robert Williams
Contact Title: Director of Quality Assurance and Compliance
Contact Phone: 951-827-1382
Contact Phone Ext: Not reported
Contact Email: robert.williams@ucr.edu
Operator Name: University of California Riverside
Operator Address: 900 University Avenue
Operator City: Riverside
Operator State: California
Operator Zip: 92507
Operator Contact: Robert Williams
Operator Contact Title: Director of Quality Assurance and Compliance

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EPA ID Number

STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Operator Contact Phone: 951-827-1382
Operator Contact Phone Ext: Not reported
Operator Contact Email: robert.williams@ucr.edu
Operator Type: Other
Developer: University of California Riverside
Developer Address: 1223 Univeristy Avenue
Developer City: Riverside
Developer State: California
Developer Zip: 92521
Developer Contact: Robert Williams
Developer Contact Title: Director of Quality Assurance and Compliance
Constype Linear Utility Ind: N
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: N
Constype Below Ground Ind: N
Constype Cable Line Ind: N
Constype Comm Line Ind: N
Constype Commercial Ind: N
Constype Electrical Line Ind: N
Constype Gas Line Ind: N
Constype Industrial Ind: N
Constype Other Description: institutional
Constype Other Ind: Y
Constype Recons Ind: N
Constype Residential Ind: N
Constype Transport Ind: N
Constype Utility Description: Not reported
Constype Utility Ind: N
Constype Water Sewer Ind: N
Dir Discharge Uswater Ind: N
Receiving Water Name: Sycamore Canyon
Certifier: Robert Williams
Certifier Title: Director of Inspection and Quality Assurance
Certification Date: 30-JAN-17
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

NPDES Number: CAS000002
Status: Active
Agency Number: 0
Region: 8
Regulatory Measure ID: 482995
Order Number: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 8 33C378946
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 02/14/2017
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: University of California Riverside
Discharge Address: 900 University Avenue
Discharge City: Riverside
Discharge State: California

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STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Discharge Zip:	92507
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Name: HIGHLANDER HALL DEMOLITION PROJECT
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 8 33C378946
Regulatory Measure Type: Construction
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Terminated
Status Date: 11/08/2019
Operator Name: University of California Riverside
Operator Address: 900 University Avenue
Operator City: Riverside
Operator State: California
Operator Zip: 92507

NPDES as of 03/2018:

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 8
Regulatory Measure ID: 482995
Order Number: Not reported
Regulatory Measure Type: Construction
Place ID: Not reported
WDID: 8 33C378946
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 01/30/2017
Processed Date: 02/14/2017
Status: Active
Status Date: 02/14/2017
Place Size: 1.56
Place Size Unit: Acres
Contact: Robert Williams
Contact Title: Director of Quality Assurance and Compliance

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Contact Phone: 951-827-1382
Contact Phone Ext: Not reported
Contact Email: robert.williams@ucr.edu
Operator Name: University of California Riverside
Operator Address: 900 University Avenue
Operator City: Riverside
Operator State: California
Operator Zip: 92507
Operator Contact: Robert Williams
Operator Contact Title: Director of Quality Assurance and Compliance
Operator Contact Phone: 951-827-1382
Operator Contact Phone Ext: Not reported
Operator Contact Email: robert.williams@ucr.edu
Operator Type: Other
Developer: University of California Riverside
Developer Address: 1223 Univeristy Avenue
Developer City: Riverside
Developer State: California
Developer Zip: 92521
Developer Contact: Robert Williams
Developer Contact Title: Director of Quality Assurance and Compliance
Constype Linear Utility Ind: N
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: N
Constype Below Ground Ind: N
Constype Cable Line Ind: N
Constype Comm Line Ind: N
Constype Commercial Ind: N
Constype Electrical Line Ind: N
Constype Gas Line Ind: N
Constype Industrial Ind: N
Constype Other Description: institutional
Constype Other Ind: Y
Constype Recons Ind: N
Constype Residential Ind: N
Constype Transport Ind: N
Constype Utility Description: Not reported
Constype Utility Ind: N
Constype Water Sewer Ind: N
Dir Discharge Uswater Ind: N
Receiving Water Name: Sycamore Canyon
Certifier: Robert Williams
Certifier Title: Director of Inspection and Quality Assurance
Certification Date: 30-JAN-17
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

NPDES Number: CAS000002
Status: Active
Agency Number: 0
Region: 8
Regulatory Measure ID: 482995
Order Number: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

WDID:	8 33C378946
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/14/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	University of California Riverside
Discharge Address:	900 University Avenue
Discharge City:	Riverside
Discharge State:	California
Discharge Zip:	92507
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Constype Utility Ind: Not reported
Constype Water Sewer Ind: Not reported
Dir Discharge Uswater Ind: Not reported
Receiving Water Name: Not reported
Certifier: Not reported
Certifier Title: Not reported
Certification Date: Not reported
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

CIWQS:

Name: EH&S EXPANSION AND LOT 27
Address: 900 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Agency: University of California Riverside
Agency Address: 900 University Avenue, Riverside, CA 92507
Place/Project Type: Construction - Commercial
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 8 33C369765
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 05/15/2014
Termination Date: 09/07/2016
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.979534
Longitude: -117.32097

Name: STUDENT RECREATION CENTER EXPANSION
Address: 900 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92507
Agency: University of California Riverside
Agency Address: 900 University Avenue, Riverside, CA 92507
Place/Project Type: Construction - Other: University Recreation Center
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 8 33C365538
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 01/30/2013
Termination Date: 06/16/2015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STUDENT RECREATION CENTER EXPANSION (Continued)

S100221282

Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.978056
Longitude: -117.328453

A31
Target
Property

900 UNIVERSITY AVE, PHYSICAL EDUCATION BLDG
RIVERSIDE, CA

CHMIRS S105882591
N/A

Site 31 of 31 in cluster A

Actual:
1031 ft.

CHMIRS:
Name: Not reported
Address: 900 UNIVERSITY AVE, PHYSICAL EDUCATION BLDG
City,State,Zip: RIVERSIDE, CA
OES Incident Number: 2-0891
OES notification: 02/15/2002
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Unknown
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

S105882591

Date/Time:	Not reported
Year:	2002
Agency:	NRC
Incident Date:	7/6/199912:00:00 AM
Admin Agency:	Riverside City Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	School
E Date:	Not reported
Substance:	Chlorine
Gallons:	0.000000
Pounds:	150
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Historical : Per the NRC: The Material released from Chlorination cylinder due to an equipment failure.

B32
ENE
 < 1/8
 0.115 mi.
 605 ft.

ALTA-DENA DRIVE IN #571
811 W BLAINE ST
RIVERSIDE, CA 92507
 Site 1 of 5 in cluster B

HIST UST **U001576483**
 N/A

Relative:
Higher
Actual:
 1055 ft.

HIST UST:	
Name:	ALTA-DENA DRIVE IN #571
Address:	811 W BLAINE ST
City,State,Zip:	RIVERSIDE, CA 92507
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000011198
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	9156726481
Owner Name:	E-Z SERVE, INC.
Owner Address:	901 SOUTH 1ST
Owner City,St,Zip:	ABILENE, TX 79602
Total Tanks:	0002
Tank Num:	001
Container Num:	25
Year Installed:	84

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALTA-DENA DRIVE IN #571 (Continued)

U001576483

Tank Capacity: 00009942
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 26
Year Installed: 78
Tank Capacity: 00009942
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

B33
ENE
< 1/8
0.115 mi.
605 ft.

ALTA-DENA DRIVE IN 571
811 BLAINE
RIVERSIDE, CA 92507
Site 2 of 5 in cluster B

LUST S105025846
HIST UST N/A
HIST CORTESE
CERS

Relative:
Higher

LUST:

Actual:
1055 ft.

Name: E-Z SERVE #070135
Address: 811 BLAINE ST
City,State,Zip: RIVERSIDE, CA 92507
Lead Agency: RIVERSIDE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500022
Global Id: T0606500022
Latitude: 33.983337
Longitude: -117.32928
Status: Completed - Case Closed
Status Date: 01/14/1992
Case Worker: RIV
RB Case Number: 083300132T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0606500022
Contact Type: Local Agency Caseworker
Contact Name: Riverside County LOP
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: Not reported
Phone Number: 9519558980

LUST:

Global Id: T0606500022
Action Type: Other
Date: 12/29/1986
Action: Leak Reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALTA-DENA DRIVE IN 571 (Continued)

S105025846

Global Id: T0606500022
Action Type: Other
Date: 12/20/1986
Action: Leak Stopped

Global Id: T0606500022
Action Type: ENFORCEMENT
Date: 01/14/1992
Action: Closure/No Further Action Letter

Global Id: T0606500022
Action Type: Other
Date: 12/20/1986
Action: Leak Discovery

LUST:

Global Id: T0606500022
Status: Open - Case Begin Date
Status Date: 12/20/1986

Global Id: T0606500022
Status: Open - Site Assessment
Status Date: 03/01/1987

Global Id: T0606500022
Status: Completed - Case Closed
Status Date: 01/14/1992

HIST UST:

Name: ALTA-DENA DRIVE IN 571
Address: 811 BLAINE
City,State,Zip: RIVERSIDE, CA 92507
File Number: 0001F611
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001F611.pdf>
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ALTA-DENA DRIVE IN 571 (Continued)

S105025846

Click here for Geo Tracker PDF:

HIST CORTESE:

edr_fname: E-Z SERVE #070135
 edr_fadd1: 811 BLAINE
 City,State,Zip: RIVERDALE, CA 92507
 Region: CORTESE
 Facility County Code: 33
 Reg By: LTNKA
 Reg Id: 083300132T

CERS:

Name: E-Z SERVE #070135
 Address: 811 BLAINE ST
 City,State,Zip: RIVERSIDE, CA 92507
 Site ID: 227908
 CERS ID: T0606500022
 CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker
 Entity Name: Riverside County LOP - RIVERSIDE COUNTY LOP
 Entity Title: Not reported
 Affiliation Address: 3880 LEMON ST SUITE 200
 Affiliation City: RIVERSIDE
 Affiliation State: CA
 Affiliation Country: Not reported
 Affiliation Zip: Not reported
 Affiliation Phone: 9519558980,

B34
ENE
 < 1/8
 0.115 mi.
 605 ft.

E-Z SERVE #070135
811 BLAINE ST
RIVERSIDE, CA 92507
Site 3 of 5 in cluster B

LUST **1000131469**
Cortese **N/A**

Relative:
Higher
Actual:
1055 ft.

LUST REG 8:
 Name: E-Z SERVE #070135
 Address: 811 BLAINE ST
 City: RIVERSIDE
 Region: 8
 County: Riverside
 Regional Board: Santa Ana Region
 Facility Status: Case Closed
 Case Number: 083300132T
 Local Case Num: Not reported
 Case Type: Soil only
 Substance: Regular Gasoline
 Qty Leaked: Not reported
 Abate Method: Not reported
 Cross Street: CANYON CREST
 Enf Type: CLOS
 Funding: Not reported
 How Discovered: OM
 How Stopped: Not reported
 Leak Cause: UNK

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E-Z SERVE #070135 (Continued)

1000131469

Leak Source:	Tank
Global ID:	T0606500022
How Stopped Date:	12/20/1986
Enter Date:	1/1/1987
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	12/20/1986
Enforcement Date:	Not reported
Close Date:	1/14/1992
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	3/1/1987
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	1/1/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.9830115
Longitude:	-117.3293547
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE. Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	NOM
Staff Initials:	UNK
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

CORTESE:

Name:	E-Z SERVE #070135
Address:	811 BLAINE ST
City,State,Zip:	RIVERSIDE, CA 92507
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0606500022
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

E-Z SERVE #070135 (Continued)

1000131469

Flag: active
 Order No: Not reported
 Waste Discharge System No: Not reported
 Effective Date: Not reported
 Region 2: Not reported
 WID Id: Not reported
 Solid Waste Id No: Not reported
 Waste Management Uit Name: Not reported
 File Name: Active Open

35
SSE
1/8-1/4
0.126 mi.
663 ft.

UNIVERSITY OF CALIFORNIA POLICE DEPARTMENT
3500 CANYON CREST DR
RIVERSIDE, CA 92507

RCRA NonGen / NLR

1027075510
CAC003147252

Relative:
Higher
Actual:
1045 ft.

RCRA NonGen / NLR:
 Date Form Received by Agency: 20211108
 Handler Name: UNIVERSITY OF CALIFORNIA POLICE DEPARTMENT
 Handler Address: 3500 CANYON CREST DR
 Handler City,State,Zip: RIVERSIDE, CA 92507
 EPA ID: CAC003147252
 Contact Name: JORGE DE LA TORRE
 Contact Address: 3500 CANYON CREST DR
 Contact City,State,Zip: RIVERSIDE, CA 92507
 Contact Telephone: 909-633-1876
 Contact Fax: Not reported
 Contact Email: DE.JORGE@CLEANHARBORS.COM
 Contact Title: Not reported
 EPA Region: 09
 Land Type: Not reported
 Federal Waste Generator Description: Not a generator, verified
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Not reported
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 3500 CANYON CREST DR
 Mailing City,State,Zip: RIVERSIDE, CA 92507
 Owner Name: UCPD BRUNNER
 Owner Type: Other
 Operator Name: JORGE DE LA TORRE
 Operator Type: Other
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility Activity: No
 Recycler Activity with Storage: No
 Small Quantity On-Site Burner Exemption: No
 Smelting Melting and Refining Furnace Exemption: No
 Underground Injection Control: No
 Off-Site Waste Receipt: No
 Universal Waste Indicator: No
 Universal Waste Destination Facility: No
 Federal Universal Waste: No
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNIVERSITY OF CALIFORNIA POLICE DEPARTMENT (Continued)

1027075510

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20211108
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: UCPD BRUNNER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3500 CANYON CREST DR
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92507
Owner/Operator Telephone:	909-633-1876
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator: Operator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CALIFORNIA POLICE DEPARTMENT (Continued)

1027075510

Owner/Operator Name: JORGE DE LA TORRE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 3500 CANYON CREST DR
Owner/Operator City,State,Zip: RIVERSIDE, CA 92507
Owner/Operator Telephone: 909-633-1876
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20211108
Handler Name: UNIVERSITY OF CALIFORNIA POLICE DEPARTMENT
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

B36 QUIXTOP JR MARKET
ENE 783 W BLAINE ST
1/8-1/4 RIVERSIDE, CA 92507
0.154 mi.
812 ft.

UST U003659511
SWEEPS UST N/A

Site 4 of 5 in cluster B

Relative: UST:
Higher Name: QUIXTOP JR MARKET
Address: 783 W BLAINE ST
Actual: City,State,Zip: RIVERSIDE, CA 92507
1062 ft. Facility ID: 613
Permitting Agency: RIVERSIDE COUNTY
CERSID: Not reported
Latitude: 33.984688
Longitude: -117.327237

SWEEPS UST:

Name: QUIXTOP JR MARKET
Address: 783 W BLAINE ST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

QUIXTOP JR MARKET (Continued)

U003659511

City: RIVERSIDE
Status: Active
Comp Number: 49307
Number: 1
Board Of Equalization: 44-018295
Referral Date: 11-17-92
Action Date: 11-17-92
Created Date: 04-14-89
Owner Tank Id: 1630
SWRCB Tank Id: 33-000-049307-000001
Tank Status: A
Capacity: 10000
Active Date: 11-17-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Name: QUIXTOP JR MARKET
Address: 783 W BLAINE ST
City: RIVERSIDE
Status: Active
Comp Number: 49307
Number: 1
Board Of Equalization: 44-018295
Referral Date: 11-17-92
Action Date: 11-17-92
Created Date: 04-14-89
Owner Tank Id: 1630
SWRCB Tank Id: 33-000-049307-000002
Tank Status: A
Capacity: 10000
Active Date: 11-17-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: QUIXTOP JR MARKET
Address: 783 W BLAINE ST
City: RIVERSIDE
Status: Active
Comp Number: 49307
Number: 1
Board Of Equalization: 44-018295
Referral Date: 11-17-92
Action Date: 11-17-92
Created Date: 04-14-89
Owner Tank Id: 001630
SWRCB Tank Id: 33-000-049307-000003
Tank Status: A
Capacity: 1000
Active Date: 11-17-92
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN CONT
Number Of Tanks: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

B37 **QUIXTOP JR MARKET**
ENE **783 W BLAINE ST**
1/8-1/4 **RIVERSIDE, CA 92507**
0.154 mi.
812 ft. **Site 5 of 5 in cluster B**

CA FID UST **S101631147**
N/A

Relative: CA FID UST:
Higher Facility ID: 33007068
 Regulated By: UTNKA
Actual: Regulated ID: Not reported
1062 ft. Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: Not reported
 Mail To: Not reported
 Mailing Address: 783 W BLAINE ST
 Mailing Address 2: Not reported
 Mailing City,St,Zip: RIVERSIDE 92507
 Contact: Not reported
 Contact Phone: Not reported
 DUNS Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

38 **HENRY LAM**
North **3063 ELGIN DR**
1/8-1/4 **RIVERSIDE, CA 92507**
0.161 mi.
848 ft.

RCRA NonGen / NLR **1026162750**
CAC003062736

Relative: RCRA NonGen / NLR:
Lower Date Form Received by Agency: 20200408
Actual: Handler Name: HENRY LAM
1028 ft. Handler Address: 3063 ELGIN DR
 Handler City,State,Zip: RIVERSIDE, CA 92507
 EPA ID: CAC003062736
 Contact Name: HENRY LAM
 Contact Address: 3063 ELGIN DR
 Contact City,State,Zip: RIVERSIDE, CA 92507
 Contact Telephone: 626-827-1180
 Contact Fax: Not reported
 Contact Email: ANAB@PWSEI.COM
 Contact Title: Not reported
 EPA Region: 09
 Land Type: Not reported
 Federal Waste Generator Description: Not a generator, verified
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Not reported
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 3063 ELGIN DR
 Mailing City,State,Zip: RIVERSIDE, CA 92507
 Owner Name: HENRY LAM
 Owner Type: Other
 Operator Name: HENRY LAM
 Operator Type: Other
 Short-Term Generator Activity: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HENRY LAM (Continued)

1026162750

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200408
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HENRY LAM (Continued)

1026162750

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HENRY LAM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3063 ELGIN DR
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92507
Owner/Operator Telephone:	626-827-1180
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	HENRY LAM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3063 ELGIN DR
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92507
Owner/Operator Telephone:	626-827-1180
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200408
Handler Name:	HENRY LAM
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found
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Evaluation Action Summary:

Evaluations:	No Evaluations Found
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Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

<p>C39 SW 1/8-1/4 0.168 mi. 885 ft.</p>	<p>LINDEN BOOSTER STATION 1045 LINDEN ST RIVERSIDE, CA 92521</p> <p>Site 1 of 2 in cluster C</p>	<p>RCRA NonGen / NLR</p>	<p>1025861508 CAC003042187</p>
<p>Relative: Lower</p>	<p>RCRA NonGen / NLR:</p>		
<p>Actual: 1025 ft.</p>	<p>Date Form Received by Agency: 20191107</p>		
	<p>Handler Name: LINDEN BOOSTER STATION</p>		
	<p>Handler Address: 1045 LINDEN ST</p>		
	<p>Handler City,State,Zip: RIVERSIDE, CA 92521</p>		
	<p>EPA ID: CAC003042187</p>		
	<p>Contact Name: JON C COLON</p>		
	<p>Contact Address: 1045 LINDEN ST</p>		
	<p>Contact City,State,Zip: RIVERSIDE, CA 92521</p>		
	<p>Contact Telephone: 951-351-6409</p>		
	<p>Contact Fax: Not reported</p>		
	<p>Contact Email: JCOLON@RIVERSIDECA.GOV</p>		
	<p>Contact Title: Not reported</p>		
	<p>EPA Region: 09</p>		
	<p>Land Type: Not reported</p>		
	<p>Federal Waste Generator Description: Not a generator, verified</p>		
	<p>Non-Notifier: Not reported</p>		
	<p>Biennial Report Cycle: Not reported</p>		
	<p>Accessibility: Not reported</p>		
	<p>Active Site Indicator: Not reported</p>		
	<p>State District Owner: Not reported</p>		
	<p>State District: Not reported</p>		
	<p>Mailing Address: 1045 LINDEN ST</p>		
	<p>Mailing City,State,Zip: RIVERSIDE, CA 92521</p>		
	<p>Owner Name: RIVERSIDE PUBLIC WORKS</p>		
	<p>Owner Type: Other</p>		
	<p>Operator Name: JON C COLON</p>		
	<p>Operator Type: Other</p>		
	<p>Short-Term Generator Activity: No</p>		
	<p>Importer Activity: No</p>		
	<p>Mixed Waste Generator: No</p>		
	<p>Transporter Activity: No</p>		
	<p>Transfer Facility Activity: No</p>		
	<p>Recycler Activity with Storage: No</p>		
	<p>Small Quantity On-Site Burner Exemption: No</p>		
	<p>Smelting Melting and Refining Furnace Exemption: No</p>		
	<p>Underground Injection Control: No</p>		
	<p>Off-Site Waste Receipt: No</p>		
	<p>Universal Waste Indicator: No</p>		
	<p>Universal Waste Destination Facility: No</p>		
	<p>Federal Universal Waste: No</p>		
	<p>Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported</p>		
	<p>Active Site Converter Treatment storage and Disposal Facility: Not reported</p>		
	<p>Active Site State-Reg Treatment Storage and Disposal Facility: Not reported</p>		
	<p>Active Site State-Reg Handler: ---</p>		
	<p>Federal Facility Indicator: Not reported</p>		
	<p>Hazardous Secondary Material Indicator: N</p>		
	<p>Sub-Part K Indicator: Not reported</p>		
	<p>Commercial TSD Indicator: No</p>		
	<p>Treatment Storage and Disposal Type: Not reported</p>		
	<p>2018 GPRA Permit Baseline: Not on the Baseline</p>		
	<p>2018 GPRA Renewals Baseline: Not on the Baseline</p>		
	<p>Permit Renewals Workload Universe: Not reported</p>		

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LINDEN BOOSTER STATION (Continued)

1025861508

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20191108
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: JON C COLON	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1045 LINDEN ST
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92521
Owner/Operator Telephone:	951-351-6409
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: RIVERSIDE PUBLIC WORKS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1045 LINDEN ST
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92521
Owner/Operator Telephone:	951-351-6409
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LINDEN BOOSTER STATION (Continued)

1025861508

Historic Generators:

Receive Date: 20191107
Handler Name: LINDEN BOOSTER STATION
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

40
NNE
1/8-1/4
0.172 mi.
906 ft.

CHRIS HACKETT
860 PRESCOTT WAY
RIVERSIDE, CA 92507

RCRA NonGen / NLR **1026468994**
CAC003074435

Relative:
Higher
Actual:
1048 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 20200710
Handler Name: CHRIS HACKETT
Handler Address: 860 PRESCOTT WAY
Handler City,State,Zip: RIVERSIDE, CA 92507
EPA ID: CAC003074435
Contact Name: CHRIS NEAL
Contact Address: 860 PRESCOTT WAY
Contact City,State,Zip: RIVERSIDE, CA 92507
Contact Telephone: 714-343-6435
Contact Fax: Not reported
Contact Email: ANAB@PWSEI.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 860 PRESCOTT WAY
Mailing City,State,Zip: RIVERSIDE, CA 92507
Owner Name: CHRIS HACKETT

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CHRIS HACKETT (Continued)

1026468994

Owner Type:		Other
Operator Name:	CHRIS NEAL	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSD Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20200814
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		No
Manifest Broker:		No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHRIS HACKETT (Continued)

1026468994

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: CHRIS NEAL
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 860 PRESCOTT WAY
Owner/Operator City,State,Zip: RIVERSIDE, CA 92507
Owner/Operator Telephone: 714-343-6435
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CHRIS HACKETT
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 860 PRESCOTT WAY
Owner/Operator City,State,Zip: RIVERSIDE, CA 92507
Owner/Operator Telephone: 714-343-6435
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20200710
Handler Name: CHRIS HACKETT
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

D41 NW 1/8-1/4 0.180 mi. 950 ft.	KRISTY KEERS 1060 ATHENA COURT RIVERSIDE, CA 92507	RCRA NonGen / NLR	1026045948 CAC003052397
Relative: Lower Site 1 of 2 in cluster D Actual: 1005 ft.			
RCRA NonGen / NLR:			
	Date Form Received by Agency:	20200123	
	Handler Name:	KRISTY KEERS	
	Handler Address:	1060 ATHENA COURT	
	Handler City,State,Zip:	RIVERSIDE, CA 92507	
	EPA ID:	CAC003052397	
	Contact Name:	KRISTY KEERS	
	Contact Address:	1060 ATHENA COURT	
	Contact City,State,Zip:	RIVERSIDE, CA 92507	
	Contact Telephone:	951-476-5290	
	Contact Fax:	Not reported	
	Contact Email:	TAMMYHURLEY@ALLIANCE-ENVIRO.COM	
	Contact Title:	Not reported	
	EPA Region:	09	
	Land Type:	Not reported	
	Federal Waste Generator Description:	Not a generator, verified	
	Non-Notifier:	Not reported	
	Biennial Report Cycle:	Not reported	
	Accessibility:	Not reported	
	Active Site Indicator:	Not reported	
	State District Owner:	Not reported	
	State District:	Not reported	
	Mailing Address:	1060 ATHENA COURT	
	Mailing City,State,Zip:	RIVERSIDE, CA 92507	
	Owner Name:	KRISTY KEERS	
	Owner Type:	Other	
	Operator Name:	KRISTY KEERS	
	Operator Type:	Other	
	Short-Term Generator Activity:	No	
	Importer Activity:	No	
	Mixed Waste Generator:	No	
	Transporter Activity:	No	
	Transfer Facility Activity:	No	
	Recycler Activity with Storage:	No	
	Small Quantity On-Site Burner Exemption:	No	
	Smelting Melting and Refining Furnace Exemption:	No	
	Underground Injection Control:	No	
	Off-Site Waste Receipt:	No	
	Universal Waste Indicator:	No	
	Universal Waste Destination Facility:	No	
	Federal Universal Waste:	No	
	Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported	
	Active Site Converter Treatment storage and Disposal Facility:	Not reported	
	Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported	
	Active Site State-Reg Handler:	---	
	Federal Facility Indicator:	Not reported	
	Hazardous Secondary Material Indicator:	N	
	Sub-Part K Indicator:	Not reported	
	Commercial TSD Indicator:	No	
	Treatment Storage and Disposal Type:	Not reported	
	2018 GPRA Permit Baseline:	Not on the Baseline	
	2018 GPRA Renewals Baseline:	Not on the Baseline	
	Permit Renewals Workload Universe:	Not reported	

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KRISTY KEERS (Continued)

1026045948

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200210
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: KRISTY KEERS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1060 ATHENA COURT
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92507
Owner/Operator Telephone:	951-476-5290
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: KRISTY KEERS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1060 ATHENA COURT
Owner/Operator City,State,Zip:	RIVERSIDE, CA 92507
Owner/Operator Telephone:	951-476-5290
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KRISTY KEERS (Continued)

1026045948

Historic Generators:

Receive Date: 20200123
Handler Name: KRISTY KEERS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**D42
NW
1/8-1/4
0.189 mi.
996 ft.**

**KUSH J GULMATICO
1070 ATHENA CT
RIVERSIDE, CA 92507**

RCRA NonGen / NLR

**1024752256
CAC002972060**

Site 2 of 2 in cluster D

**Relative:
Lower**

RCRA NonGen / NLR:

**Actual:
1003 ft.**

Date Form Received by Agency: 20180720
Handler Name: KUSH J GULMATICO
Handler Address: 1070 ATHENA CT
Handler City,State,Zip: RIVERSIDE, CA 92507
EPA ID: CAC002972060
Contact Name: KUSH J GULMATICO
Contact Address: 16593 STONECREEK DR
Contact City,State,Zip: FONTANA, CA 92336
Contact Telephone: 909-276-9918
Contact Fax: Not reported
Contact Email: JALBOR@BURNS-ENVIRO.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 16593 STONECREEK DR
Mailing City,State,Zip: FONTANA, CA 92336
Owner Name: KUSH J GULMATICO

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KUSH J GULMATICO (Continued)

1024752256

Owner Type:		Other
Operator Name:	KUSH J GULMATICO	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSD Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20180831
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		No
Manifest Broker:		No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KUSH J GULMATICO (Continued)

1024752256

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: KUSH J GULMATICO
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 16593 STONECREEK DR
Owner/Operator City,State,Zip: FONTANA, CA 92336
Owner/Operator Telephone: 909-276-9918
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: KUSH J GULMATICO
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 16593 STONECREEK DR
Owner/Operator City,State,Zip: FONTANA, CA 92336
Owner/Operator Telephone: 909-276-9918
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20180720
Handler Name: KUSH J GULMATICO
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

C43
SW
1/8-1/4
0.202 mi.
1065 ft.

RIVERSIDE CITY RADIO REPEAT
BOX SPRINGS MOUNTAIN RD
RIVERSIDE, CA 92507

UST **U003783804**
N/A

Site 2 of 2 in cluster C

Relative:
Lower
Actual:
1021 ft.

UST:
 Name: RIVERSIDE CITY RADIO REPEAT
 Address: BOX SPRINGS MOUNTAIN RD
 City,State,Zip: RIVERSIDE, CA 92507
 Facility ID: 639
 Permitting Agency: RIVERSIDE COUNTY
 CERSID: Not reported
 Latitude: 33.97933
 Longitude: -117.33551

E44
NE
1/8-1/4
0.223 mi.
1179 ft.

HIGHLANDER PARK PARTNERSHIP
3131 WATKINS DRIVE
RIVERSIDE, CA 92507

RCRA NonGen / NLR **1025844233**
CAC003023851

Site 1 of 2 in cluster E

Relative:
Higher
Actual:
1065 ft.

RCRA NonGen / NLR:
 Date Form Received by Agency: 20190712
 Handler Name: HIGHLANDER PARK PARTNERSHIP
 Handler Address: 3131 WATKINS DRIVE
 Handler City,State,Zip: RIVERSIDE, CA 92507
 EPA ID: CAC003023851
 Contact Name: CYNTHIA WALKER
 Contact Address: 3131 WATKINS DRIVE
 Contact City,State,Zip: RIVERSIDE, CA 92507
 Contact Telephone: 951-683-1422
 Contact Fax: Not reported
 Contact Email: HIGHLANDERPARK@RPKDEVELOPMENT.COM
 Contact Title: Not reported
 EPA Region: 09
 Land Type: Not reported
 Federal Waste Generator Description: Not a generator, verified
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 3131 WATKINS DRIVE
 Mailing City,State,Zip: RIVERSIDE, CA 92507
 Owner Name: HIGHLANDER PARK PARTNERSHIP
 Owner Type: Other
 Operator Name: CYNTHIA WALKER
 Operator Type: Other
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility Activity: No
 Recycler Activity with Storage: No
 Small Quantity On-Site Burner Exemption: No
 Smelting Melting and Refining Furnace Exemption: No
 Underground Injection Control: No
 Off-Site Waste Receipt: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HIGHLANDER PARK PARTNERSHIP (Continued)

1025844233

Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190729
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HIGHLANDER PARK PARTNERSHIP
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2566 OVERLAND AVENUE
Owner/Operator City,State,Zip:	LOS ANGELES, CA 90064
Owner/Operator Telephone:	951-683-1422
Owner/Operator Telephone Ext:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HIGHLANDER PARK PARTNERSHIP (Continued)

1025844233

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CYNTHIA WALKER
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 3131 WATKINS DRIVE
Owner/Operator City,State,Zip: RIVERSIDE, CA 92507
Owner/Operator Telephone: 951-683-1422
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20190712
Handler Name: HIGHLANDER PARK PARTNERSHIP
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

E45
NE
1/8-1/4
0.223 mi.
1179 ft.

HIGHLANDER PARK APARTMENTS
3131 WATKINS DRIVE
RIVERSIDE, CA 92507

RCRA NonGen / NLR 1026475686
CAC003081447

Site 2 of 2 in cluster E

Relative:
Higher
Actual:
1065 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 20200828
Handler Name: HIGHLANDER PARK APARTMENTS
Handler Address: 3131 WATKINS DRIVE
Handler City,State,Zip: RIVERSIDE, CA 92507
EPA ID: CAC003081447
Contact Name: CYNTHIA WALKER
Contact Address: 3131 WATKINS DRIVE
Contact City,State,Zip: RIVERSIDE, CA 92507
Contact Telephone: 951-683-1422

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HIGHLANDER PARK APARTMENTS (Continued)

1026475686

Contact Fax:		Not reported
Contact Email:		HIGHLANDERPARK@RPKDEVELOPMENT.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		2566 OVERLAND AVENUE
Mailing City,State,Zip:		LOS ANGELES, CA 90064
Owner Name:	HIGHLANDER PARK APARTMENTS	
Owner Type:		Other
Operator Name:	CYNTHIA WALKER	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HIGHLANDER PARK APARTMENTS (Continued)

1026475686

Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20200904
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: HIGHLANDER PARK APARTMENTS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2566 OVERLAND AVENUE
Owner/Operator City,State,Zip: LOS ANGELES, CA 90064
Owner/Operator Telephone: 951-683-1422
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CYNTHIA WALKER
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 3131 WATKINS DRIVE
Owner/Operator City,State,Zip: RIVERSIDE, CA 92507
Owner/Operator Telephone: 951-683-1422
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20200828
Handler Name: HIGHLANDER PARK APARTMENTS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HIGHLANDER PARK APARTMENTS (Continued)

1026475686

List of NAICS Codes and Descriptions:

NAICS Code: 56291
 NAICS Description: REMEDIATION SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

46
ENE
1/8-1/4
0.230 mi.
1215 ft.

UNIV 4 HR CLEANERS
765 BLAINE ST
RIVERSIDE, CA 92517

DRYCLEANERS **S121696723**
N/A

Relative:
Higher
Actual:
1074 ft.

DRYCLEAN SOUTH COAST:

Name: UNIV 4 HR CLEANERS
 Address: 765 BLAINE ST
 City,State,Zip: RIVERSIDE, CA 92517
 Facility ID: 17991
 Application Number: 01715E
 Permit Number: E03971
 Status: O
 Representative Name: Not reported
 Representative Telephone: Not reported
 Permit Status: INACTIVE
 BCAT Number: 000234
 BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
 CCAT Number: Not reported
 CCAT Description: Not reported
 UTM East: 0
 UTM North: 0
 Application Date: 12/31/9999
 PO Issue Date: 04/22/1980
 NAICS Code: Not reported
 SIC Code: 3479

47
SSW
1/4-1/2
0.370 mi.
1955 ft.

CHEVRON #9-8260
1011 UNIVERSITY AVE
RIVERSIDE, CA 92507

LUST **S103620375**
Cortese **N/A**
HIST CORTESE
CERS

Relative:
Higher
Actual:
1035 ft.

LUST:

Name: CHEVRON #9-8260
 Address: 1011 UNIVERSITY AVE
 City,State,Zip: RIVERSIDE, CA 92507
 Lead Agency: RIVERSIDE COUNTY LOP
 Case Type: LUST Cleanup Site
 Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500089
 Global Id: T0606500089
 Latitude: 33.9759004861213
 Longitude: -117.334090754631

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON #9-8260 (Continued)

S103620375

Status: Completed - Case Closed
Status Date: 05/01/1992
Case Worker: RIV
RB Case Number: 083300839T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Local Agency Warehouse
Local Case Number: 91776
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0606500089
Contact Type: Local Agency Caseworker
Contact Name: Riverside County LOP
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: Not reported
Phone Number: 9519558980

LUST:

Global Id: T0606500089
Action Type: ENFORCEMENT
Date: 04/30/1992
Action: File review - #RCDEH upload site file 1/16/2015

Global Id: T0606500089
Action Type: Other
Date: 08/20/1991
Action: Leak Reported

Global Id: T0606500089
Action Type: REMEDIATION
Date: 08/20/1991
Action: Soil Vapor Extraction (SVE)

Global Id: T0606500089
Action Type: Other
Date: 08/16/1991
Action: Leak Began

Global Id: T0606500089
Action Type: Other
Date: 08/16/1991
Action: Leak Stopped

Global Id: T0606500089
Action Type: ENFORCEMENT
Date: 05/01/1992
Action: Closure/No Further Action Letter - #RCDEH5192

Global Id: T0606500089
Action Type: Other
Date: 08/16/1991
Action: Leak Discovery

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON #9-8260 (Continued)

S103620375

LUST:

Global Id: T0606500089
Status: Open - Case Begin Date
Status Date: 08/16/1991

Global Id: T0606500089
Status: Open - Site Assessment
Status Date: 08/16/1991

Global Id: T0606500089
Status: Open - Remediation
Status Date: 08/19/1991

Global Id: T0606500089
Status: Open - Site Assessment
Status Date: 08/20/1991

Global Id: T0606500089
Status: Completed - Case Closed
Status Date: 05/01/1992

LUST REG 8:

Name: CHEVRON #9-8260
Address: 1011 UNIVERSITY AVE
City: RIVERSIDE
Region: 8
County: Riverside
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083300839T
Local Case Num: 91776
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: 60 FWY
Enf Type: CLOS
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: Piping
Global ID: T0606500089
How Stopped Date: 8/16/1991
Enter Date: 7/24/1991
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: Not reported
Discover Date: 8/16/1991
Enforcement Date: Not reported
Close Date: 5/1/1992
Date Prelim Assessment Workplan Submitted: 8/20/1991
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON #9-8260 (Continued)

S103620375

Enter Date: 7/24/1991
GW Qualifies: Not reported
Soil Qualifies: Not reported
Operator: Not reported
Facility Contact: Not reported
Interim: Not reported
Oversite Program: LUST
Latitude: 33.9757296
Longitude: -117.3328987
MTBE Date: Not reported
Max MTBE GW: Not reported
MTBE Concentration: 0
Max MTBE Soil: Not reported
MTBE Fuel: 1
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class: *
Staff: RS
Staff Initials: UNK
Lead Agency: Local Agency
Local Agency: 33000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

RIVERSIDE CO. LUST:

Name: CHEVRON #9-8260
Address: 1011 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA
Region: RIVERSIDE
Facility ID: 91776
Employee: Boltinghous-LOP
Site Closed: Yes
Case Type: Soil only
Facility Status: closed/action completed
Casetype Decode: Soil only is impacted
Fstatus Decode: Closed/Action completed

CORTESE:

Name: CHEVRON #9-8260
Address: 1011 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500089
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON #9-8260 (Continued)

S103620375

Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:

edr_fname: CHEVRON #9-8260
edr_fadd1: 1011 UNIVERSITY
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 083300839T

CERS:

Name: CHEVRON #9-8260
Address: 1011 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 229253
CERS ID: T0606500089
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker
Entity Name: Riverside County LOP - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980,

48 GROVE 186
WSW COLE ST
1/4-1/2 RIVERSIDE, CA 92507
0.416 mi.
2198 ft.

LUST S110654903
CERS N/A

Relative:
Lower
Actual:
986 ft.

LUST:

Name: GROVE 186
Address: COLE ST
City,State,Zip: RIVERSIDE, CA 92507
Lead Agency: RIVERSIDE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500130
Global Id: T0606500130
Latitude: 33.9793165
Longitude: -117.339662
Status: Completed - Case Closed
Status Date: 12/11/1989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROVE 186 (Continued)

S110654903

Case Worker: RIV
RB Case Number: 083301228T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:

Global Id: T0606500130
Contact Type: Regional Board Caseworker
Contact Name: PATRICIA HANNON
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: patricia.hannon@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0606500130
Contact Type: Local Agency Caseworker
Contact Name: Riverside County LOP
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: Not reported
Phone Number: 9519558980

LUST:

Global Id: T0606500130
Action Type: Other
Date: 08/10/1988
Action: Leak Reported

Global Id: T0606500130
Action Type: Other
Date: 08/05/1988
Action: Leak Stopped

Global Id: T0606500130
Action Type: ENFORCEMENT
Date: 12/11/1989
Action: Closure/No Further Action Letter

Global Id: T0606500130
Action Type: Other
Date: 08/05/1988
Action: Leak Discovery

LUST:

Global Id: T0606500130
Status: Open - Case Begin Date
Status Date: 08/05/1988

Global Id: T0606500130
Status: Open - Site Assessment
Status Date: 07/21/1989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROVE 186 (Continued)

S110654903

Global Id: T0606500130
Status: Completed - Case Closed
Status Date: 12/11/1989

CERS:

Name: GROVE 186
Address: COLE ST
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 241584
CERS ID: T0606500130
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Regional Board Caseworker
Entity Name: PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Local Agency Caseworker
Entity Name: Riverside County LOP - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980,

F49
SSW
1/4-1/2
0.426 mi.
2249 ft.

MOBIL #18-402
1147 UNIVERSITY AVE
RIVERSIDE, CA 92507
Site 1 of 3 in cluster F

LUST **S101589937**
SWEEPS UST **N/A**
CA FID UST
HIST CORTESE

Relative:
Lower
Actual:
1017 ft.

LUST REG 8:
Name: MOBIL #18-402
Address: 1147 UNIVERSITY AVE
City: RIVERSIDE
Region: 8
County: Riverside
Regional Board: Santa Ana Region
Facility Status: Pollution Characterization
Case Number: 083303453T
Local Case Num: 9914834
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: I-215
Enf Type: Not reported
Funding: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S101589937

How Discovered:	Subsurface Monitoring
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0606500586
How Stopped Date:	10/22/1998
Enter Date:	5/12/1999
Date Confirmation of Leak Began:	12/30/1998
Date Preliminary Assessment Began:	12/5/2000
Discover Date:	1/7/1999
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	3/13/2001
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	5/12/1999
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.9757296
Longitude:	-117.3358158
MTBE Date:	11/28/2001
Max MTBE GW:	9.4
MTBE Concentration:	1
Max MTBE Soil:	330
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	UNK
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

SWEEPS UST:

Name:	MOBIL #18-402
Address:	1147 UNIVERSITY AVE
City:	RIVERSIDE
Status:	Active
Comp Number:	39266
Number:	1
Board Of Equalization:	44-000400
Referral Date:	11-17-92
Action Date:	11-17-92
Created Date:	02-29-88
Owner Tank Id:	000727
SWRCB Tank Id:	33-000-039266-000001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S101589937

Tank Status: A
Capacity: 12000
Active Date: 11-17-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Name: MOBIL #18-402
Address: 1147 UNIVERSITY AVE
City: RIVERSIDE
Status: Active
Comp Number: 39266
Number: 1
Board Of Equalization: 44-000400
Referral Date: 11-17-92
Action Date: 11-17-92
Created Date: 02-29-88
Owner Tank Id: 000727
SWRCB Tank Id: 33-000-039266-000002
Tank Status: A
Capacity: 8000
Active Date: 11-17-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: MOBIL #18-402
Address: 1147 UNIVERSITY AVE
City: RIVERSIDE
Status: Active
Comp Number: 39266
Number: 1
Board Of Equalization: 44-000400
Referral Date: 11-17-92
Action Date: 11-17-92
Created Date: 02-29-88
Owner Tank Id: 000727
SWRCB Tank Id: 33-000-039266-000003
Tank Status: A
Capacity: 6000
Active Date: 11-17-92
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Name: MOBIL #18-402
Address: 1147 UNIVERSITY AVE
City: RIVERSIDE
Status: Active
Comp Number: 39266
Number: 1
Board Of Equalization: 44-000400
Referral Date: 11-17-92
Action Date: 11-17-92

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MOBIL #18-402 (Continued)

S101589937

Created Date: 02-29-88
 Owner Tank Id: 000727
 SWRCB Tank Id: 33-000-039266-000004
 Tank Status: A
 Capacity: 1000
 Active Date: 11-17-92
 Tank Use: M.V. FUEL
 STG: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

CA FID UST:

Facility ID: 33001427
 Regulated By: UTNKA
 Regulated ID: 00039266
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: 7146839434
 Mail To: Not reported
 Mailing Address: 3225 GALLOWS RD
 Mailing Address 2: Not reported
 Mailing City,St,Zip: RIVERSIDE 92507
 Contact: Not reported
 Contact Phone: Not reported
 DUNs Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

HIST CORTESE:

edr_fname: MOBIL #18-402
 edr_fadd1: 1147
 City,State,Zip: RIVERSIDE, CA 92507
 Region: CORTESE
 Facility County Code: 33
 Reg By: LTNKA
 Reg Id: 083303453T

F50
SSW
 1/4-1/2
 0.426 mi.
 2249 ft.
 Relative:
 Lower
 Actual:
 1017 ft.

MOBIL #18-402
1147 UNIVERSITY AVE
RIVERSIDE, CA 92507
 Site 2 of 3 in cluster F

LUST S100275475
CERS HAZ WASTE N/A
CERS TANKS
CHMIRS
Cortese
HAZNET
CERS
HWTS

LUST:

Name: MOBIL #18-402
 Address: 1147 UNIVERSITY AVE
 City,State,Zip: RIVERSIDE, CA 92507
 Lead Agency: RIVERSIDE COUNTY LOP
 Case Type: LUST Cleanup Site
 Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500586
 Global Id: T0606500586
 Latitude: 33.9760321025203

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Longitude: -117.336867225934
Status: Completed - Case Closed
Status Date: 01/13/2011
Case Worker: YR
RB Case Number: 083303453T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Local Agency Warehouse
Local Case Number: 9914834
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: The station currently maintains five double-walled, fiberglass gasoline underground storage tanks (USTs). There are two 8,000-gallon capacity tanks, one 12,000-gallon capacity tank, one 10,000-gallon capacity tank, and one 6,000-gallon capacity tank. Several phases of investigations and remediation have been conducted at the Site since October 1998. In October 1998, compliance soil sampling (D1 through D8) was performed at the Site during piping upgrades (Kleinfelder, 1998). Hydrocarbon-affected soil was encountered adjacent to the western (D7 and D8) and east-central (D3) dispenser islands. In November 1999 to January 2000, five soil borings (B-1 through B-5) were drilled at the Site to total depths ranging between 65 feet below ground surface (bgs) and 85 feet bgs (Kleinfelder, 2000). Benzene was detected at concentrations above the laboratory reporting limit in soil samples collected from borings B-1, B-3 and B-4. Methyl tertiarybutyl ether (MtBE) was detected at concentrations above the laboratory reporting limit in soil samples collected from borings B-1, B-3, B-4, and B-5, located in the area surrounding the western-most dispenser island and near the east-central dispenser island. Fuel oxygenates, including diisopropyl ether (DIPE), ethyl tertiary-butyl ether (EtBE), tertiary-amyl methyl ether (tAME), and tertiary-butyl alcohol (tBA) were not detected above laboratory reporting limits in soil samples collected from the borings. In June 2001, one groundwater monitoring well (MW-4), three SVE wells (SVE-1 [B-7], SVE-2 [B-6], and SVE-3 [B-8]), and three soil borings (B-9, B-10, and B-11), were completed at the Site (Kleinfelder, 2001). Soil borings and SVE wells were drilled to total depths ranging from 95 feet bgs to 195 feet bgs. Total petroleum hydrocarbons as gasoline (TPH-g) was reported at a maximum concentration of 17 milligrams per kilogram (mg/kg) in a sample from MW-4 at 20 feet bgs. Benzene was reported in one soil sample, collected from MW-4 at 70 feet bgs, at a concentration of 26 micrograms per kilogram (µg/kg). MtBE was reported above the laboratory reporting limit in soil samples collected from borings SVE-1, SVE-3, B-9, and MW-4, with a maximum concentration of 820 µg/kg (MW-4 at 70 feet bgs). Fuel oxygenates DIPE, EtBE, tAME, and tBA were not detected above laboratory reporting limits in the soil samples analyzed. From May to July 2002, Kleinfelder supervised the completion of one SVE well (SVE-4), two groundwater monitoring wells (MW-1 and MW-2), and one soil boring (B-13) (Kleinfelder, 2002b). The soil boring and wells were drilled to total depths ranging from 150 feet bgs to 197 feet bgs. The maximum TPH-g concentration was 12,000 mg/kg in the sample collected from boring SVE-4 at 10 feet bgs. Benzene was detected in only one soil sample, SVE-4 at 15 feet bgs, at a concentration of 540 µg/kg. MtBE was reported in soil samples collected from borings SVE-4, MW-1, MW-2, and B-13, with a maximum concentration of 330 mg/kg (SVE-4 at 50 feet bgs). In April 2002, Kleinfelder performed a soil remediation feasibility evaluation for the Site (Kleinfelder, 2002a). For this

MAP FINDINGS

MOBIL #18-402 (Continued)

S100275475

evaluation, the primary constituents of concern at the Site were identified as benzene and MtBE. Hydrocarbon-affected soil was located in two areas: the vicinity of the western dispenser island (Area One); and the vicinity of the east-central dispenser island (Area Two). It was estimated that Area One had approximately 4,187 cubic yards (yd³) of soil containing hydrocarbons. Based on the average TPH-g concentrations, it was estimated that soil within Area One contained approximately 19,000 pounds (lbs) of hydrocarbons, of which MtBE represented an estimated 19 lbs, and benzene represented an estimated 4 lbs. It was estimated that Area Two had approximately 1,832 yd³ of hydrocarbon-affected soil. Based on the average TPH-g concentrations, it was estimated that soil within Area Two contained approximately 430 lbs of hydrocarbons, of which MtBE represented an estimated 0.2 lbs. The mass of benzene in the soil could not be calculated since benzene concentrations in soil samples collected in Area Two have historically been below laboratory reporting limits. In July 2002, Kleinfelder began groundwater monitoring and sampling from three on-Site groundwater monitoring wells (MW-1, MW-2, and MW-4). Following a decline in hydrocarbon groundwater concentrations during Fourth Quarter 2003, Kleinfelder proposed that groundwater monitoring frequency be reduced from quarterly to semiannually (Kleinfelder, 2004). In a letter dated February 26, 2004, RCDEH approved the semi-annual groundwater monitoring schedule (RCDEH, 2004). Concentrations of dissolved-phase TPH-g and benzene have been below laboratory reporting limits since January 2002. Dissolved-phase MtBE was last reported in October 2007 at a concentration of 0.69 J (J = estimated value) micrograms per liter ("g/L) in a sample collected from MW-2 (Kleinfelder, 2010). On August 2002, Kleinfelder performed SVE feasibility testing at the Site (Kleinfelder, 2002c). Based on the results of SVE step testing, performed as part of the feasibility testing, high vapor flow appeared to be attainable at the Site with relatively low vacuum and an SVE radius of influence (ROI) for the Site was approximately 65 feet. Based on results of the feasibility testing, Kleinfelder proposed that SVE be performed on well SVE-4. It was proposed that a SVE system operate until vapor concentrations display asymptotic conditions (diminishing returns), after which the SVE system effectiveness would be evaluated by pulse testing the system for vapor rebound concentrations. Additional details of the soil remediation feasibility study and the feasibility testing are described in Kleinfelders Corrective Action Plan, dated September 30, 2002 (Kleinfelder, 2002c), and Addendum to Corrective Action Plan, dated January 15, 2003 (Kleinfelder, 2003). A SVE system was installed at the Site and began operation on October 14, 2003. The SVE system was a VR Systems Internal Combustion Engine (ICE) that extracted soil vapors from vapor extraction well SVE-4. By June 1, 2005, the system had extracted and treated approximately 10,086 lbs of hydrocarbons, and influent vapor concentrations displayed asymptotic reductions in hydrocarbon concentrations (diminishing returns). To confirm asymptotic levels had been achieved, Kleinfelder requested that pulsing of the system, for one month on and one month off cycles, be initiated and continued for a four month period, as part of a vapor rebound test (Kleinfelder, 2005a). The RCDEH approved the request to begin pulsing of the SVE system (RCDEH, 2005). A summary of system operation data and a request to cease remediation at the Site was presented in Kleinfelders Soil Vapor Extraction Rebound Test Report and Site Closure Request (Kleinfelder, 2005b). The RCDEH approved the request to cease SVE operations in February

MOBIL #18-402 (Continued)

S100275475

2006 (RCDEH, 2006). In March and April 2006, Kleinfelder supervised the advancement of four confirmation soil borings (CB-1 through CB-4) at the Site as part of a post remediation assessment for support of case closure (Kleinfelder, 2006). Borings CB-1 through CB-3 were drilled and sampled to 140 feet bgs, and boring CB-4 was advanced to 126.5 feet bgs. Boring CB-4 could not be advanced deeper than 126.5 feet bgs due to refusal at that depth. Concentrations of TPH-g were reported in three soil borings and ranged from 0.095 J mg/kg (CB-3 at 10 feet bgs) to 1,200 mg/kg (CB-4 at 25 feet bgs). Benzene was reported in one soil sample (CB-1 at 90 feet bgs) at a concentration of 0.55 J "g/kg. Toluene was reported at concentrations ranging from 0.61 J "g/kg to 81 "g/kg. In March and April 2006, Kleinfelder supervised the advancement of four confirmation soil borings (CB-1 through CB-4) at the Site as part of a post remediation assessment for support of case closure (Kleinfelder, 2006). Borings CB-1 through CB-3 were drilled and sampled to 140 feet bgs, and boring CB-4 was advanced to 126.5 feet bgs. Boring CB-4 could not be advanced deeper than 126.5 feet bgs due to refusal at that depth. Concentrations of TPH-g were reported in three soil borings and ranged from 0.095 J mg/kg (CB-3 at 10 feet bgs) to 1,200 mg/kg (CB-4 at 25 feet bgs). Benzene was reported in one soil sample (CB-1 at 90 feet bgs) at a concentration of 0.55 J "g/kg. Toluene was reported at concentrations ranging from 0.61 J "g/kg to 81 "g/kg. In March and April 2006, Kleinfelder supervised the advancement of four confirmation soil borings (CB-1 through CB-4) at the Site as part of a post remediation assessment for support of case closure (Kleinfelder, 2006). Borings CB-1 through CB-3 were drilled and sampled to 140 feet bgs, and boring CB-4 was advanced to 126.5 feet bgs. Boring CB-4 could not be advanced deeper than 126.5 feet bgs due to refusal at that depth. Concentrations of TPH-g were reported in three soil borings and ranged from 0.095 J mg/kg (CB-3 at 10 feet bgs) to 1,200 mg/kg (CB-4 at 25 feet bgs). Benzene was reported in one soil sample (CB-1 at 90 feet bgs) at a concentration of 0.55 J "g/kg. Toluene was reported at concentrations ranging from 0.61 J "g/kg to 81 "g/kg. Ethylbenzene was reported at concentrations ranging from 0.78 J "g/kg to 3,000 "g/kg, and total xylenes were reported at concentrations ranging from 0.56 J "g/kg to 103,000 B "g/kg (B = analyte was detected in an associated method blank). The reported concentrations of toluene, ethylbenzene, and total xylenes were predominantly located in samples collected from CB-4, drilled in the vicinity of the eastern dispenser island. Concentrations of MtBE were reported to range from 1.0 J "g/kg to 33 "g/kg, with the maximum concentration of MtBE reported in the sample collected from CB-3 at 75 feet bgs. On February 8, 2007, Kleinfelder met with the RCDEH to discuss case closure. The attendees present were Ms. Sharon Boltinghouse from RCDEH, and Mssrs. Brad McCardell, Jeremy Whitcomb, and Hiram Garcia from Kleinfelder. The proposed scope of work as agreed to at the meeting included drilling three additional soil confirmation borings (CB-5, CB-6, and CB-7) to assess the effectiveness of SVE near previous borings CB-2, CB-3, and CB-4 in support of case closure with the RCDEH. Each proposed soil confirmation boring was to be advanced to approximately 40 feet bgs. The RCDEH prepared a letter dated March 1, 2007 confirming the scope of work (RCDEH, 2007). The details of this investigation are presented below. In March 2007, three soil confirmation borings (CB-5, CB-6, and CB-7) were advanced to 40 feet bgs to assess the effectiveness of SVE near previous borings CB-2, CB-3, and CB-4 in support of case closure with the RCDEH (Kleinfelder, 2007a). Soil

MOBIL #18-402 (Continued)

S100275475

encountered during drilling generally consisted of silty sand with intermittent lenses of well-graded sand to the total depth explored (40 feet bgs). Soil samples collected from boring CB-7, near the eastern dispenser island, were reported to contain detectable concentrations of petroleum hydrocarbons and oxygenates. TPH-g concentrations were reported in samples collected from boring CB-7, ranging from 2.3 mg/kg (30 feet bgs) to 740 mg/kg (25 feet bgs). Benzene and toluene concentrations were below laboratory reporting limits in soil samples collected from borings CB-5, CB-6, and CB-7. Ethylbenzene was reported at concentrations ranging from 280 µg/kg to 1,800 µg/kg, and total xylenes were reported at concentrations ranging from 19,000 µg/kg to 99,000 µg/kg. Concentrations of ethylbenzene and total xylenes were reported in samples collected from CB-7 at depths of 20 and 25 feet bgs in the vicinity of the eastern dispenser island. MtBE concentrations were below laboratory reporting limits in the soil samples collected from borings CB-5, CB-6, and CB-7. In August 2007, two SVE wells (SVE-5 and SVE-6) were installed at depths of 30 and 35 feet bgs, respectively (Kleinfelder, 2007b). TPH-g was detected in soil samples collected from boring SVE-6, at a maximum concentration of 1,200 mg/kg (25 feet bgs). TPH-g was not detected in soil samples collected from boring SVE-5. Benzene, toluene, MtBE, DIPE, EtBE, tAME, and tBA were not detected above laboratory reporting limits in soil samples collected from borings SVE-5 and SVE-6. Ethylbenzene and total xylenes were detected in soil samples collected from boring SVE-6 at maximum concentrations of 510 µg/kg (25 feet bgs) and 30,000 µg/kg (25 feet bgs), respectively. Ethylbenzene and total xylenes were not detected above laboratory reporting limits in soil samples collected from boring SVE-5. Between February 29, 2008 and May 22, 2009, SVE operations were initiated on SVE-5 and SVE-6 for the purpose of primarily recovering trimethylbenzene concentrations (detected in soil confirmation boring CB-7). An estimated 270 pounds of VOCs as hexane, an estimated 1,292 pounds of VOC based on FID readings, an estimated 15.1 pounds of 1,2,4-TMB, and an estimated 9.8 pounds of 1,3,5-TMB were extracted from the subsurface. Due to low mass recovery rates (less than one pound per day) and the SCAQMD permit moratorium, the system was shut down on May 22, 2009. During the three SVE events, the system operated for a total of 21,600 hours and an estimated 10,407 pounds VOCF, 10,538 pounds of VOCs as hexane, 3.2 pounds benzene, 404 pounds toluene, 113 pounds ethylbenzene, 744 pounds xylenes, 29.2 pounds 1,2,4-TMB, and 17.9 pounds 1,3,4-TMB were removed from the subsurface. Vapor concentrations were reduced from 10,500 to 66 ppmV for VOCs as hexane, from 990 to 0.09 ppmV for toluene, from 570 to 1.2 ppmV for xylenes, from 120 to 0.012 ppmV for ethylbenzene, from 20 ppmV to non-detect for MTBE, and from 31 to 2.7 ppmV for 1,2,4-TMB. Other VOCs were less than 20 ppm at the beginning of operations and decreased to below 2 ppm prior to shutdown. On May 20, 2010, two confirmation borings (CB-8 and CB-9) were advanced in the vicinity of well SVE-6 to assess the effectiveness of remedial activities at the Site. Based upon laboratory analytical results of soil samples collected from boring SVE-6 in 2007 and CB-8 and CB-9 in 2010, constituent concentrations in soil near SVE-6 appear to have been reduced by SVE operations. Maximum TPH-g concentrations in soil have been reduced from 1,200 mg/kg (SVE-6 at 25 feet bgs) to 47 mg/kg (CB-9 at 30 feet bgs). BTEX constituents and MtBE were not detected above laboratory reporting limits in soil samples collected from borings CB-8 and CB-9. Groundwater monitoring and sampling commenced

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

in July 2002, utilizing three on-site groundwater monitoring wells (MW-1, MW-2, and MW-4). Following a decline in groundwater hydrocarbon concentrations the RCDEH approved a reduced, semi-annual, groundwater monitoring schedule. Concentrations of dissolved-phase TPH-g and benzene have been below laboratory reporting limits since January 2002. Dissolved-phase MTBE was last reported in December 2007 in a sample collected from MW-2 at an estimated concentration of 0.69 J a%g/L. During First Quarter 2010, TPH-g, benzene, toluene, ethylbenzene, and fuel oxygenates are no longer present in samples above laboratory reporting limits. A low concentration of xylenes (1.3 a%g/L) was reported in the February 3, 2010 groundwater sample collected from monitoring well MW-4. RWQCB and RCDEH concur with closure. 01/13/2011 NFA/closure letter issued by RCDEH.

LUST:

Global Id: T0606500586
Contact Type: Local Agency Caseworker
Contact Name: YVONNE REYES
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: ayreyes@rivco.org
Phone Number: 9519558982

LUST:

Global Id: T0606500586
Action Type: ENFORCEMENT
Date: 11/19/2007
Action: File review

Global Id: T0606500586
Action Type: ENFORCEMENT
Date: 05/04/2010
Action: Staff Letter - #RCDEH050410

Global Id: T0606500586
Action Type: Other
Date: 01/11/1999
Action: Leak Reported

Global Id: T0606500586
Action Type: RESPONSE
Date: 12/16/2010
Action: Well Destruction Report

Global Id: T0606500586
Action Type: REMEDIATION
Date: 10/14/2003
Action: Soil Vapor Extraction (SVE)

Global Id: T0606500586
Action Type: ENFORCEMENT
Date: 08/13/2009
Action: Staff Letter - #RCDEH081309

Global Id: T0606500586
Action Type: ENFORCEMENT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Date: 01/12/2011
Action: File review - #RCDEH uploaded site file

Global Id: T0606500586
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0606500586
Action Type: ENFORCEMENT
Date: 03/03/2008
Action: Technical Correspondence / Assistance / Other - #RCDEH 030308

Global Id: T0606500586
Action Type: ENFORCEMENT
Date: 10/12/2010
Action: Staff Letter - #RCDEH101210

Global Id: T0606500586
Action Type: Other
Date: 10/22/1998
Action: Leak Stopped

Global Id: T0606500586
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Annually

Global Id: T0606500586
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0606500586
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Quarterly

Global Id: T0606500586
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Quarterly

Global Id: T0606500586
Action Type: RESPONSE
Date: 12/23/2008
Action: Monitoring Report - Quarterly

Global Id: T0606500586
Action Type: RESPONSE
Date: 10/07/2008
Action: Monitoring Report - Quarterly

Global Id: T0606500586
Action Type: RESPONSE
Date: 10/31/2007
Action: Other Report / Document

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Global Id:	T0606500586
Action Type:	RESPONSE
Date:	07/05/2010
Action:	Other Report / Document
Global Id:	T0606500586
Action Type:	ENFORCEMENT
Date:	08/24/2007
Action:	Staff Letter - #RCDEH 082407
Global Id:	T0606500586
Action Type:	ENFORCEMENT
Date:	01/15/2004
Action:	File review
Global Id:	T0606500586
Action Type:	RESPONSE
Date:	01/15/2009
Action:	Other Report / Document
Global Id:	T0606500586
Action Type:	RESPONSE
Date:	10/01/2008
Action:	Monitoring Report - Quarterly
Global Id:	T0606500586
Action Type:	RESPONSE
Date:	07/15/2009
Action:	Monitoring Report - Quarterly
Global Id:	T0606500586
Action Type:	RESPONSE
Date:	07/15/2010
Action:	Monitoring Report - Quarterly
Global Id:	T0606500586
Action Type:	RESPONSE
Date:	10/15/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0606500586
Action Type:	ENFORCEMENT
Date:	01/13/2011
Action:	Closure/No Further Action Letter - #RCDEH closure
Global Id:	T0606500586
Action Type:	Other
Date:	01/07/1999
Action:	Leak Discovery
Global Id:	T0606500586
Action Type:	RESPONSE
Date:	07/15/2008
Action:	Monitoring Report - Quarterly
Global Id:	T0606500586
Action Type:	RESPONSE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0606500586
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

LUST:

Global Id: T0606500586
Status: Open - Case Begin Date
Status Date: 10/22/1998

Global Id: T0606500586
Status: Open - Site Assessment
Status Date: 12/13/1999

Global Id: T0606500586
Status: Open - Remediation
Status Date: 10/14/2003

Global Id: T0606500586
Status: Open - Verification Monitoring
Status Date: 03/27/2007

Global Id: T0606500586
Status: Completed - Case Closed
Status Date: 01/13/2011

RIVERSIDE CO. LUST:

Name: MOBIL #18-402
Address: 1147 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA
Region: RIVERSIDE
Facility ID: 9914834
Employee: Reyes
Site Closed: Yes
Case Type: Drinking Water Aquifer affected
Facility Status: closed/action completed
Casetype Decode: An Aquifer used for Drinking Water supply has been contaminated.
Fstatus Decode: Closed/Action completed

CERS HAZ WASTE:

Name: RASHID'S, INC., DBA UNIVERSITY MOBIL
Address: 1147 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 105652
CERS ID: 10340815
CERS Description: Hazardous Waste Generator

CERS TANKS:

Name: RASHID'S, INC., DBA UNIVERSITY MOBIL
Address: 1147 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Site ID: 105652
CERS ID: 10340815
CERS Description: Underground Storage Tank

CHMIRS:

Name: Not reported
Address: 1147 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
OES Incident Number: 12-1972
OES notification: 04/03/2012
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Service Station
Cleanup By: Responsible Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Cup(s)
Other: Not reported
Date/Time: 1600
Year: 2012
Agency: Veeder Root
Incident Date: 4/3/2012
Admin Agency: Riverside City Fire Department
Amount: Not reported
Contained: Yes
Site Type: Not reported
E Date: Not reported
Substance: Gasoline
Quantity Released: 2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatals: Not reported
Comments: Not reported
Description: RP states that an automatic shutoff failed resulting in the release of 2 cups of gasoline onto the concrete at an Exxon Mobile gas station. The release is contained and cleanup is complete. No waterways have been impacted.

Name: Not reported
Address: 1147 UNIVERSITY
City,State,Zip: RIVERSIDE, CA 92507
OES Incident Number: 910917
OES notification: Not reported
OES Date: Not reported
OES Time: Not reported
Date Completed: 28-NOV-89
Property Use: 500
Agency Id Number: 33075
Agency Incident Number: 8916261
Time Notified: 1927
Time Completed: 1949
Surrounding Area: 500
Estimated Temperature: Not reported
Property Management: P
More Than Two Substances Involved?: N
Resp Agncy Personel # Of Decontaminated: 0
Responding Agency Personel # Of Injuries: 0
Responding Agency Personel # Of Fatalities: 0
Others Number Of Decontaminated: 0
Others Number Of Injuries: 0
Others Number Of Fatalities: 0
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: CAPTAIN FISHER / 29732
Report Date: 02-JAN-90
Facility Telephone: 714 782-5679
Waterway Involved: Not reported
Waterway: Not reported
Spill Site: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 88-92
Agency: Not reported
Incident Date: 28-NOV-89
Admin Agency: Not reported
Amount: Not reported
Contained: Not reported
Site Type: Not reported
E Date: 23-MAY-90
Substance: Not reported
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatals: Not reported
Comments: Not reported
Description: Not reported

CORTESE:

Name: MOBIL #18-402
Address: 1147 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500586
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Waste Management Unit Name: Not reported
File Name: Active Open

HAZNET:

Name: CITY OF RIVERSIDE
Address: 1147 UNIVERSITY AVE
Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 925074587
Contact: JC CORTEZ
Telephone: 9514537524
Mailing Name: Not reported
Mailing Address: 3900 MAIN ST FL 6

Year: 2015
Gepaid: CAC002820688
TSD EPA ID: CAD008364432
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.495

Additional Info:

Year: 2015
Gen EPA ID: CAC002820688

Shipment Date: 20150702
Creation Date: 9/4/2015 22:15:45
Receipt Date: 20150720
Manifest ID: 013430002JJK
Trans EPA ID: CAR000177576
Trans Name: DOUBLE BARREL ENVIRONMENTAL SERVICES
Trans 2 EPA ID: CAD983649880
Trans 2 Name: PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSD EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSD Alt EPA ID: Not reported
TSD Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D001
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.495
Waste Quantity: 150
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:

Name: RASHID'S, INC., DBA UNIVERSITY MOBIL
Address: 1147 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 105652
CERS ID: 10340815
CERS Description: Chemical Storage Facilities

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Violations:

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 07-22-2013
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes: Returned to compliance on 06/15/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 01-21-2021
Citation: 23 CCR 16 2637(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637(f)
Violation Description: Failure to submit a copy of the secondary containment test results on the Secondary Containment Testing report Form to the UPA within 30 days after the test.
Violation Notes: Returned to compliance on 01/18/2022. OBSERVATION: Secondary containment testing was conducted on 08/17/2020 as reported by the DO on the monthly inspection reports. Observed that owner/operator failed to submit test results to the CUPA within 30 days of testing. CORRECTIVE ACTION: Owner/operator shall submit test results for secondary containment testing conducted on 08/17/2020 to the CUPA within 30 days. Documents must be provided on state-approved forms. Maintain a copy on site.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 01-19-2017
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 02/16/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 07-22-2013
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 06/15/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 01-05-2022
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Not reported
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 07-02-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Release/Leaks/Spills - General
Violation Notes: Returned to compliance on 07/13/2015. add and maintain spill kit and PPE's on site at all times.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 07-22-2013
Citation: HSC 6.7 25284(a)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)
Violation Description: Failure to submit, maintain, or implement an owner/operator written agreement.
Violation Notes: Returned to compliance on 06/15/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 07-22-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 06/15/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 07-22-2013
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain and/or maintain an Active EPA ID.
Violation Notes: Returned to compliance on 06/15/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 01-19-2017
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 02/16/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 07-22-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 06/15/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 01-21-2021
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Violation Notes: engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. " Returned to compliance on 04/23/2021. OBSERVATION: Observed 91 fuel product spill bucket drain valve to be leaking and would not hold liquid. CORRECTIVE ACTION: Owner/operator shall repair/replace the leaking spill bucket drain valve so that bucket is able to hold liquid and contain release until detected.

Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 01-23-2020
Citation: 23 CCR 16 2715(a)(1)(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(1)(B)

Violation Description: Failure to submit the Designated Underground Storage Tank Operator Identification Form within 30 days of installing a UST system or within 30 days of a change in DO.

Violation Notes: Returned to compliance on 01/21/2021. OBSERVATION: Owner/ operator failed to submit the Designated UST Operator Identification form to the statewide system (i.e., CERS). CORRECTIVE ACTION: Owner/operator shall submit the Designated UST Operator Identification form to the statewide system (i.e., CERS).

Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 01-18-2022
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)

Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Violation Notes: prevention equipment inspection for 36 months.
OBSERVATION: Observed installed flow restrictor to be inoperable, missing ball floats in all tanks, preventing proper flow restrictor operation. CORRECTIVE ACTION: Owner/operator shall replace inoperable flow restrictor with approved overfill prevention equipment e.g. drop tube shut off device. Flow restrictors no longer satisfy this requirement. Plan submittal will be required for installation of new overfill prevention equipment. Contact Joel Harris, the plan check personnel at the department by calling (951) 358-5055 or via email at joelharris@rivco.org within TWO weeks (14 days).

Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 01-18-2022
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2

Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "

Violation Notes: OBSERVATION: Observed 87 fuel product siphon sump drain valve to be leaking and would not hold liquid. CORRECTIVE ACTION: Owner/operator shall repair/replace the leaking spill bucket drain valve so that bucket is able to hold liquid and contain release until detected.

Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 07-22-2013
Citation: HSC 6.11 25404.1 - California Health and Safety Code, Chapter 6.11, Section(s) 25404.1

Violation Description: Failure to obtain and/or maintain an active hazardous waste generator permit.

Violation Notes: Returned to compliance on 06/15/2017.

Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 11-17-2021
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)

Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: Not reported
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Violation Date: 01-23-2020
Citation: HSC 6.7 25293 - California Health and Safety Code, Chapter 6.7, Section(s) 25293

Violation Description: Failure to maintain UST records in sufficient detail to enable the UPA to determine whether the UST systems are in compliance.

Violation Notes: Returned to compliance on 01/21/2021. OBSERVATION: Observed piping monitoring records to be illegible and lacking sufficient detail to determine if Hybrid UST system -Double walled tanks Single walled piping are in compliance. CORRECTIVE ACTION: Owner/operator shall ensure monthly ELLD records are completed so as to be legible and in sufficient detail to verify compliance.

Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-18-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HW generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2016
Violations Found: No
Eval Type: Routine done by local agency

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Eval Notes: UST annual inspection/CMD
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HW Generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST CMD
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-28-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: conclude inspection/Review and sign reports
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-16-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HW follow up
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-05-2022
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-09-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST Follow up Inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-19-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST annual inspection/CMD
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HW generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review and sign report
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST follow up
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-01-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Eval Date: 07-22-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Haz waste generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-17-2021
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-17-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Annual CMD/UST inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-23-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Conclude UST inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-18-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site with R& C compliance technician, Brad Larsen (ICC # 8146911 expires 04/24/2023), to conduct a monitoring certification inspection including an overfill inspection. NOTE: ATP and sumps' sensors were removed prior to inspector's arrival. This action was discussed with technician and manager on site. Technicians should await for the arrival and approval of the CUPA to remove the sensors. Ensure to submit monitoring certification and overfill inspection test results to the department within 30 days.
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-19-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HW generator inspection
Eval Division: Riverside County Department of Env Health

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-29-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST follow up inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-17-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Haz waste generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-17-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST annual inspection/CMD
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-18-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST CMD/inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Conclude inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-21-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: The purpose of this inspection is to conduct an annual monitoring certification inspection.
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-23-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitoring option for pressurized system section was all marked N/A; Hybrid UST system-double walled tanks; Single walled piping. Refer to supplementary report attached to this inspection report.

Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-22-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST Inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-16-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HW generator follow up
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-17-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Haz waste generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-23-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Conclude inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Enforcement Action:

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Site Address: 1147 UNIVERSITY AVE
Site City: RIVERSIDE
Site Zip: 92507
Enf Action Date: 07-22-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 105652
Site Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Site Address: 1147 UNIVERSITY AVE
Site City: RIVERSIDE
Site Zip: 92507
Enf Action Date: 07-22-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: UST
Enf Action Source: CERS,

Coordinates:

Site ID: 105652
Facility Name: RASHID'S, INC., dba UNIVERSITY MOBIL
Env Int Type Code: HWG
Program ID: 10340815
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 33.976090
Longitude: -117.336750

Affiliation:

Affiliation Type Desc: Environmental Contact
Entity Name: ABDUL RASHID
Entity Title: Not reported
Affiliation Address: 1147 UNIVERSITY DR.
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92507
Affiliation Phone: ,

Affiliation Type Desc: UST Tank Operator
Entity Name: RASHID'S, INC. dba UNIVERSITY MOBIL
Entity Title: Not reported
Affiliation Address: 1147 UNIVERSITY DR.
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92507

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Affiliation Phone: (951) 787-0182,

Affiliation Type Desc: UST Tank Owner
Entity Name: 1147 UNIVERSITY, LLC.
Entity Title: Not reported
Affiliation Address: 1147 UNIVERSITY DR.
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92507
Affiliation Phone: (951) 787-0182,

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Document Preparer
Entity Name: LANCE YORK
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: 1147 UNIVERSITY, LLC.
Entity Title: Not reported
Affiliation Address: 1147 UNIVERSITY DR.
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92507
Affiliation Phone: (951) 787-0182,

Affiliation Type Desc: Property Owner
Entity Name: 1147 UNIVERSITY, LLC
Entity Title: Not reported
Affiliation Address: 1147 UNIVERSITY DR.
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92507
Affiliation Phone: (951) 787-0182,

Affiliation Type Desc: Operator
Entity Name: RASHID'S, INC. dba UNIVERSITY MOBIL
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 397-4710,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1147 UNIVERSITY DR.
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92507
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Lance York
Entity Title: Owner's Authorized Agent
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: ARLINGTON, INC.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: UST Permit Applicant
Entity Name: ABDUL RASHID
Entity Title: PRESIDENT
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 397-4710,

Affiliation Type Desc: UST Property Owner Name
Entity Name: 1147 UNIVERSITY, LLC.
Entity Title: Not reported
Affiliation Address: 1147 UNIVERSITY DR.
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92507
Affiliation Phone: (951) 787-0182,

Name: MOBIL #18-402

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #18-402 (Continued)

S100275475

Address: 1147 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 192273
CERS ID: T0606500586
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: YVONNE REYES - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558982,

HWTS:
Name: CITY OF RIVERSIDE
Address: 1147 UNIVERSITY AVE
Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92507
EPA ID: CAC002820688
Inactive Date: 10/01/2015
Create Date: 07/02/2015
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 3900 MAIN ST FL 6
Mailing Address 2: Not reported
Mailing City,State,Zip: RIVERSIDE, CA 92502
Owner Name: CITY OF RIVERSIDE
Owner Address: 3900 MAIN ST FL 6
Owner Address 2: Not reported
Owner City,State,Zip: RIVERSIDE, CA 92502
Contact Name: JC CORTEZ
Contact Address: 3900 MAIN ST FL 6
Contact Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92502
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 33.975807
Longitude: -117.336858

G51 **TEXACO SERVICE STATION 120593**
West **1300 BLAINE ST**
1/4-1/2 **RIVERSIDE, CA 92507**
0.439 mi.
2317 ft. **Site 1 of 6 in cluster G**

RCRA-SQG **1004678170**
LUST **CAR000105809**
FINDS
ECHO

Relative: RCRA-SQG:
Lower Date Form Received by Agency: 20020228
Handler Name: TEXACO SERVICE STATION 120593
Handler Address: 1300 BLAINE ST
Handler City,State,Zip: RIVERSIDE, CA 92507
EPA ID: CAR000105809
Contact Name: SONDR A E BIENVENU

Actual:
981 ft.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TEXACO SERVICE STATION 120593 (Continued)

1004678170

Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	713-241-5036
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 2648
Mailing City,State,Zip:	HOUSTON, TX 77252
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRAs Permit Baseline:	Not on the Baseline
2018 GPRAs Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRAs Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION 120593 (Continued)

1004678170

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDU Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20060905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2001

[Click Here for Biennial Reporting System Data:](#)

Hazardous Waste Summary:

Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EQUILON ENTERPRISES L L C
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P O BOX 2648
Owner/Operator City,State,Zip:	HOUSTON, TX 77252-5036
Owner/Operator Telephone:	713-241-5036
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20020228
Handler Name:	TEXACO SERVICE STATION 120593
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION 120593 (Continued)

1004678170

Receive Date: 20010918
Handler Name: TEXACO SERVICE STATION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020228
Handler Name: TEXACO SERVICE STATION 120593
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 44719
NAICS Description: OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

LUST REG 8:

Name: TEXACO OIL COMPANY
Address: 1300 BLAINE STREET
City: RIVERSIDE
Region: 8
County: Riverside
Regional Board: Santa Ana Region
Facility Status: Leak being confirmed
Case Number: 083303932T
Local Case Num: 200218657
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: HWY 215
Enf Type: Not reported
Funding: Not reported
How Discovered: Tank Closure

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION 120593 (Continued)

1004678170

How Stopped:	Close Tank
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0606599251
How Stopped Date:	6/11/2002
Enter Date:	Not reported
Date Confirmation of Leak Began:	6/12/2002
Date Preliminary Assessment Began:	Not reported
Discover Date:	6/11/2002
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	0
Longitude:	0
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	33000
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	TME
Staff Initials:	SCB
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	Not reported
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

FINDS:

Registry ID: 110012189023

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION 120593 (Continued)

1004678170

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004678170
Registry ID: 110012189023
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110012189023>
Name: TEXACO SERVICE STATION 120593
Address: 1300 BLAINE ST
City,State,Zip: RIVERSIDE, CA 92507

G52
West
1/4-1/2
0.439 mi.
2317 ft.

EXXON SERVICE STATION #2899
1300 BLAINE ST
RIVERSIDE, CA 92507
Site 2 of 6 in cluster G

LUST **S104576318**
Cortese **N/A**
CERS

Relative:
Lower
Actual:
981 ft.

LUST:

Name: EXXON SERVICE STATION #2899
Address: 1300 BLAINE ST
City,State,Zip: RIVERSIDE, CA 92507
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500065
Global Id: T0606500065
Latitude: 33.9829958
Longitude: -117.3398698
Status: Completed - Case Closed
Status Date: 07/11/1988
Case Worker: CAB
RB Case Number: 083300601T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0606500065
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0606500065
Contact Type: Local Agency Caseworker
Contact Name: SHARON BOLTINGHOUSE
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: sbolting@rivco.org

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXXON SERVICE STATION #2899 (Continued)

S104576318

Phone Number: 9519558980

LUST:

Global Id: T0606500065
Action Type: Other
Date: 08/07/1987
Action: Leak Reported

LUST:

Global Id: T0606500065
Status: Open - Case Begin Date
Status Date: 08/07/1987

Global Id: T0606500065
Status: Open - Site Assessment
Status Date: 08/07/1987

Global Id: T0606500065
Status: Completed - Case Closed
Status Date: 07/11/1988

Name: TEXACO BLAINE
Address: 1300 BLAINE STREET
City,State,Zip: RIVERSIDE, CA 92507
Lead Agency: RIVERSIDE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606599251
Global Id: T0606599251
Latitude: 33.9826498109872
Longitude: -117.340077671199
Status: Completed - Case Closed
Status Date: 05/18/2005
Case Worker: SCB
RB Case Number: 083303932T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Not reported
Local Case Number: 200218657
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0606599251
Contact Type: Regional Board Caseworker
Contact Name: MIGUEL OVIEDO
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: miguel.oviedo@waterboards.ca.gov
Phone Number: 9517823238

Global Id: T0606599251
Contact Type: Local Agency Caseworker
Contact Name: SHARON BOLTINGHOUSE
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXXON SERVICE STATION #2899 (Continued)

S104576318

City: RIVERSIDE
Email: sbolting@rivco.org
Phone Number: 9519558980

LUST:

Global Id: T0606599251
Action Type: Other
Date: 06/12/2002
Action: Leak Reported

Global Id: T0606599251
Action Type: ENFORCEMENT
Date: 05/17/2005
Action: File review - #RCDEH uploaded site file 12/9/2014

Global Id: T0606599251
Action Type: Other
Date: 06/11/2002
Action: Leak Stopped

Global Id: T0606599251
Action Type: ENFORCEMENT
Date: 03/09/2005
Action: Closure/No Further Action Letter

Global Id: T0606599251
Action Type: Other
Date: 06/11/2002
Action: Leak Discovery

LUST:

Global Id: T0606599251
Status: Open - Case Begin Date
Status Date: 06/11/2002

Global Id: T0606599251
Status: Open - Site Assessment
Status Date: 06/12/2002

Global Id: T0606599251
Status: Completed - Case Closed
Status Date: 05/18/2005

RIVERSIDE CO. LUST:

Name: TEXACO BLAINE
Address: 1300 BLAINE ST
City,State,Zip: RIVERSIDE, CA
Region: RIVERSIDE
Facility ID: 200218657
Employee: Boltinghous-LOP
Site Closed: Yes
Case Type: Soil only
Facility Status: closed/action completed
Casetype Decode: Soil only is impacted
Fstatus Decode: Closed/Action completed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXXON SERVICE STATION #2899 (Continued)

S104576318

CORTESE:

Name: TEXACO BLAINE
Address: 1300 BLAINE STREET
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606599251
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:

Name: EXXON SERVICE STATION #2899
Address: 1300 BLAINE ST
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 195270
CERS ID: T0606500065
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker
Entity Name: SHARON BOLTINGHOUSE - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980,

Name: TEXACO BLAINE
Address: 1300 BLAINE STREET
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 244435
CERS ID: T0606599251
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MIGUEL OVIEDO - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

EXXON SERVICE STATION #2899 (Continued)

S104576318

Affiliation Address:	3737 Main Street, Suite 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517823238,
Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	SHARON BOLTINGHOUSE - RIVERSIDE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	3880 LEMON ST SUITE 200
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9519558980,

G53
West
1/4-1/2
0.439 mi.
2317 ft.

EXXON SERVICE STATION #2899
1300 BLAINE ST
RIVERSIDE, CA 92507
Site 3 of 6 in cluster G

LUST **S104164200**
Cortese **N/A**

Relative:
Lower
Actual:
981 ft.

Relative:	LUST REG 8:
Lower	Name: EXXON SERVICE STATION #2899
Actual:	Address: 1300 BLAINE ST
981 ft.	City: RIVERSIDE
	Region: 8
	County: Riverside
	Regional Board: Santa Ana Region
	Facility Status: Case Closed
	Case Number: 083300601T
	Local Case Num: Not reported
	Case Type: Soil only
	Substance: Gasoline
	Qty Leaked: Not reported
	Abate Method: Not reported
	Cross Street: IOWA
	Enf Type: Not reported
	Funding: Not reported
	How Discovered: Not reported
	How Stopped: Not reported
	Leak Cause: Not reported
	Leak Source: Not reported
	Global ID: T0606500065
	How Stopped Date: Not reported
	Enter Date: 8/6/1987
	Date Confirmation of Leak Began: Not reported
	Date Preliminary Assessment Began: Not reported
	Discover Date: Not reported
	Enforcement Date: Not reported
	Close Date: 7/11/1988
	Date Prelim Assessment Workplan Submitted: Not reported
	Date Pollution Characterization Began: 8/7/1987
	Date Remediation Plan Submitted: Not reported
	Date Remedial Action Underway: Not reported
	Date Post Remedial Action Monitoring: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXXON SERVICE STATION #2899 (Continued)

S104164200

Enter Date:	8/6/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.9831244
Longitude:	-117.339803
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	UNK
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

CORTESE:

Name:	EXXON SERVICE STATION #2899
Address:	1300 BLAINE ST
City,State,Zip:	RIVERSIDE, CA 92507
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0606500065
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

G54
West
1/4-1/2
0.439 mi.
2318 ft.

Relative:
Lower

Actual:
980 ft.

SHELL
3261 IOWA
RIVERSIDE, CA 92507

Site 4 of 6 in cluster G

LUST **U001576545**
CERS HAZ WASTE
HIST UST
CERS TANKS
CHMIRS
Cortese
HAZNET
HIST CORTESE
CERS
HWTS
N/A

LUST:

Name: SHELL IOWA AVENUE
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA 92507
Lead Agency: RIVERSIDE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606575445
Global Id: T0606575445
Latitude: 33.983522
Longitude: -117.340273
Status: Completed - Case Closed
Status Date: 04/07/2006
Case Worker: SCB
RB Case Number: Not reported
Local Agency: RIVERSIDE COUNTY LOP
File Location: Not reported
Local Case Number: 200421108
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0606575445
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0606575445
Contact Type: Local Agency Caseworker
Contact Name: SHARON BOLTINGHOUSE
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: sbolting@rivco.org
Phone Number: 9519558980

LUST:

Global Id: T0606575445
Action Type: ENFORCEMENT
Date: 05/07/2007
Action: File review

Global Id: T0606575445
Action Type: Other

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Date: 11/17/2004
Action: Leak Reported

Global Id: T0606575445
Action Type: REMEDIATION
Date: 12/14/2004
Action: Excavation

Global Id: T0606575445
Action Type: Other
Date: 11/15/2004
Action: Leak Discovery

LUST:

Global Id: T0606575445
Status: Open - Case Begin Date
Status Date: 11/15/2004

Global Id: T0606575445
Status: Open - Site Assessment
Status Date: 12/14/2004

Global Id: T0606575445
Status: Completed - Case Closed
Status Date: 04/07/2006

Name: SHELL BLAINE
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA 92507
Lead Agency: RIVERSIDE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500371
Global Id: T0606500371
Latitude: 33.9834926852973
Longitude: -117.340431250332
Status: Completed - Case Closed
Status Date: 05/16/1996
Case Worker: SCB
RB Case Number: 083302449T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Local Agency Warehouse
Local Case Number: 94345
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0606500371
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Global Id: T0606500371
Contact Type: Local Agency Caseworker
Contact Name: SHARON BOLTINGHOUSE
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: sbolting@rivco.org
Phone Number: 9519558980

LUST:

Global Id: T0606500371
Action Type: Other
Date: 05/02/1994
Action: Leak Reported

Global Id: T0606500371
Action Type: REMEDIATION
Date: 04/04/1994
Action: Excavation

Global Id: T0606500371
Action Type: ENFORCEMENT
Date: 05/16/1996
Action: Closure/No Further Action Letter - #RCDEH0516

Global Id: T0606500371
Action Type: Other
Date: 03/31/1994
Action: Leak Stopped

Global Id: T0606500371
Action Type: ENFORCEMENT
Date: 05/15/1996
Action: File review - #RCDEH Upload Site File 10/28/2015

Global Id: T0606500371
Action Type: Other
Date: 03/31/1994
Action: Leak Discovery

LUST:

Global Id: T0606500371
Status: Open - Case Begin Date
Status Date: 03/31/1994

Global Id: T0606500371
Status: Open - Remediation
Status Date: 04/04/1994

Global Id: T0606500371
Status: Open - Site Assessment
Status Date: 05/02/1994

Global Id: T0606500371
Status: Completed - Case Closed
Status Date: 05/16/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

RIVERSIDE CO. LUST:

Name: SHELL BLAINE
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA
Region: RIVERSIDE
Facility ID: 94345
Employee: Boltinghous-LOP
Site Closed: Yes
Case Type: Soil only
Facility Status: closed/action completed
Casetype Decode: Soil only is impacted
Fstatus Decode: Closed/Action completed

Name: SHELL IOWA AVE
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA
Region: RIVERSIDE
Facility ID: 200421108
Employee: Boltinghous-LOP
Site Closed: Yes
Case Type: Soil only
Facility Status: closed/action completed
Casetype Decode: Soil only is impacted
Fstatus Decode: Closed/Action completed

CERS HAZ WASTE:

Name: UCR SHELL
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 99082
CERS ID: 10496332
CERS Description: Hazardous Waste Generator

HIST UST:

Name: SHELL
Address: 3261 IOWA
City,State,Zip: RIVERSIDE, CA 92507
File Number: 0001F975
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001F975.pdf>
Region: STATE
Facility ID: 00000009500
Facility Type: Gas Station
Other Type: Not reported
Contact Name: ROGER SCHNIEDER
Telephone: 7146839959
Owner Name: SHELL OIL COMPANY
Owner Address: P.O. BOX 4848
Owner City,St,Zip: ANAHEIM, CA 92803
Total Tanks: 0003

Tank Num: 001
Container Num: 3
Year Installed: 1979
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, Groundwater Monitoring Well, 10

Tank Num: 002
Container Num: 1
Year Installed: 1979
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, Groundwater Monitoring Well, 10

Tank Num: 003
Container Num: 2
Year Installed: 1979
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, Groundwater Monitoring Well, 10

[Click here for Geo Tracker PDF:](#)

CERS TANKS:

Name: UCR SHELL
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 99082
CERS ID: 10496332
CERS Description: Underground Storage Tank

CHMIRS:

Name: Not reported
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA
OES Incident Number: 092
OES notification: Not reported
OES Date: 3/4/1994
OES Time: 10:18:24 AM
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agency Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: YES
Waterway: Not reported
Spill Site: Not reported
Cleanup By: tanks emptied, contractor enroute
Containment: Not reported
What Happened: Not reported
Type: PETROLEUM
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1994
Agency: shell oil
Incident Date: 03/04/94 0900
Admin Agency: Not reported
Amount: unknown
Contained: NO
Site Type: S/S
E Date: Not reported
Substance: gasoline
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: NO
Number of Injuries: NO
Number of Fatalities: NO
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatals: Not reported
Comments: Not reported
Description: tank test failure for 2 tanks.

CORTESE:

Name: SHELL BLAINE
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500371
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

Name: SHELL IOWA AVENUE
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606575445
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HAZNET:

Name: UCR SHELL
Address: 3261 IOWA AVE
Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92507
Contact: ERIC DRANSFIELD
Telephone: 9515515750
Mailing Name: Not reported
Mailing Address: 3261 IOWA AVE

Year: 2019
Gepaid: CAL000407734
TSD EPA ID: CAT080013352
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid
Regeneration, Organics Recovery Ect
Tons: 1.15500

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Year: 2019
Gepaid: CAL000407734
TSD EPA ID: AZR000521146
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05000

HIST CORTESE:

edr_fname: BLAINE SHELL
edr_fadd1: 3261 IOWA
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 083302449T

CERS:

Name: SHELL IOWA AVENUE
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 198131
CERS ID: T0606575445
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker
Entity Name: SHARON BOLTINGHOUSE - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980,

Name: UCR SHELL
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 99082
CERS ID: 10496332
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 99082
Site Name: UCR Shell
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 11/25/2014. Post NFPA 704 signage
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Site ID: 99082
Site Name: UCR Shell
Violation Date: 10-23-2014
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 11/25/2014.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-15-2022
Citation: 23 CCR 16 2644.1(a)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2644.1(a)(4)
Violation Description: Failure to notify the UPA 48 hours prior to testing.
Violation Notes: Returned to compliance on 03/15/2022. OBSERVATION: This facility conducted a Cold Start on 7/15/2021 and did not notify the CUPA at least 48 hours prior to the beginning of the test. CORRECTIVE ACTION: Owner/operator shall ensure that the CUPA is notified at least 48 hours prior to the start of a test.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 04-06-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 04/28/2021. The chemical inventory has not been submitted accurately. Submit the chemical inventory in CERS. Include the changes of the following chemicals in CERS: add CO2 located in the rear of the business
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 10-23-2014
Citation: HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description: Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 11/25/2014.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-25-2014
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes: Returned to compliance on 03/20/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 04-28-2016
Citation: HSC 6.11 25404.1 - California Health and Safety Code, Chapter 6.11, Section(s) 25404.1
Violation Description: Failure to obtain and/or maintain an active hazardous waste generator permit.
Violation Notes: Returned to compliance on 06/03/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-31-2020
Citation: HSC 6.7 25294 - California Health and Safety Code, Chapter 6.7, Section(s) 25294
Violation Description: Failure to record any unauthorized release from the primary containment.
Violation Notes: Returned to compliance on 06/04/2020.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-25-2014
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/20/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-17-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 04/28/2021. The chemical inventory has not been submitted accurately. Submit the chemical inventory in CERS.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Include the changes of the following chemicals in CERS: add CO2 located in the rear of the business

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-25-2014
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections

Violation Description: UST Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 03/20/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-29-2021
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)

Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violation Notes: Returned to compliance on 03/29/2021. OBSERVATION: Observed incomplete labels on 3 - 55 gallon drums of testing liquid and solid absorbent waste. Information missing included the accumulation start date. CORRECTIVE ACTION: Owner/operator shall label hazardous waste containers with all the required information. Label shall include at least: the words ""hazardous waste"", generator name and address, accumulation start date, composition and physical state of waste, and hazardous property statement. Submit photos to this department, if applicable. Operator corrected the violation at the time of this inspection.

Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 04-28-2016
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284

Violation Description: Failure to obtain and maintain a valid operation permit from the CUPA.
Violation Notes: Returned to compliance on 06/02/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-31-2020
Citation: 23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Violation Description: Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 06/23/2020.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 08-25-2015
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)

Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 10/08/2015.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-29-2021
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)

Violation Description: Failure to have current UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 03/29/2021. OBSERVATION: No UST Monitoring Plan available on site during inspection. The 87 main, 87 slave and 91 STP sump, 208 sensors did not shut down the turbine when tested. CERS reporting indicates that these locations will shut down. ction. CORRECTIVE ACTION: Owner/operator shall maintain a current UST Monitoring Plan on site that has been accepted in CERS and make available for review. A copy of all 3 tank monitoring plans were emailed to the Paul Vidakovich the Environmental Contact at the time of this inspection. UST binder shall be updated. The technician reprogrammed the Veeder Root for turbine shut down when the 208 sensor detects a leak to correlate with CERS reporting.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 10-23-2014
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)

Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 11/25/2014.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Violation Date: 08-25-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Release/Leaks/Spills - General
Violation Notes: Returned to compliance on 10/08/2015. Provide spill kit and PPE's
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-15-2022
Citation: 23 CCR 16 2638(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638(d)
Violation Description: Failure to submit the Monitoring System Certification Form to the UPA within 30 days of completion of the test.
Violation Notes: OBSERVATION: Owner/operator failed to submit the cold start monitoring certification forms to this Department within 30 days of testing . Results for monitoring certification conducted on 7/15/2021 were not submitted to the Department. CORRECTIVE ACTION: Owner/operator shall ensure Cold Start monitoring certification results are submitted to the CUPA within 30 days of testing.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 11/25/2014. Post signage on storage area.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 11-13-2018
Citation: Un-Specified
Violation Description: Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes: Returned to compliance on 12/13/2018. Current permit issued/posted. [RMC 9.48.030] - No current permit was posted Obtain current permit and post in a conspicuous location.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-17-2021
Citation: Un-Specified
Violation Description: Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes: Returned to compliance on 04/06/2021. 100 - Current permit

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

issued/posted. [RMC 9.48.140] - No current permit was posted. Obtain the current permit and post in a conspicuous location.

Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-25-2014
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 03/20/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 10-23-2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 11/25/2014.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 10-23-2014
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes: Returned to compliance on 11/25/2014.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 02-27-2017
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 06/06/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 99082

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Site Name: UCR Shell
Violation Date: 08-25-2015
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes: Returned to compliance on 10/08/2015.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Release/Leaks/Spills - General
Violation Notes: Returned to compliance on 11/25/2014. Provide spill kit.
Violation Division: Riverside City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-07-2019
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 04/05/2019.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-15-2022
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to submit or maintain a current facility plot plan.
Violation Notes: OBSERVATION: Observed site plot plan to be inaccurate and/or incomplete with missing required information. The plan failed to show the correct location of 91 Tank and the 87 Syphon Tank. CORRECTIVE ACTION: Owner/operator shall update the facility site plot plan making sure all required information is documented on the map and submit in CERS maintaining a copy on site and available for review.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Violation Date: 03-31-2020
Citation: 23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description: For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.

Violation Notes: Returned to compliance on 06/23/2020.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-26-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HW Generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-12-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Cancelled - heavy rain
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-17-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspector D. Young
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-29-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Annual monitoring certification was performed by PCET, Erin Celiceo, ICC Technician #8035367, expires 12/8/22. Routine UST inspection performed by H. Barrios NOTE: L1 (1/2 UDC), L5 (7/8 UDC) 208's have been alarming "Sensor Out" several times this month and have been noted on previous DO reports. L10 (87 Slave, annualar) 301 has been giving a fuel alarm throughout this month and during this inspection. The 208's and 301 passed inspection today. Continue to monitor their

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

activity and access and repair as necessary.
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-06-2021
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection - D. Young
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-07-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST follow up
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-25-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-26-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST CMD/inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-27-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: DARs, envision entry
Eval Division: Riverside County Department of Env Health
Eval Program: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Conclude inspection/review and sign report
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-07-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST CMD/inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-29-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: This facility is a gas station with a convenience store. They are a small quantity, hazardous waste generator of petroleum contaminated testing liquid, hoses, filters and absorbent material.
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-28-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection - D. Young. All violations from 3/17/2021 routine inspection have been abated.
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-28-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Conclude inspection/review and sign report
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-07-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST CMD/Inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-15-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitoring certification today. PCET on site for testing, Please Note During the past year the facility has had multiple Sensor Out alarms on L5 7/8 UDC 208 sensor. The D.O, has stated that facility may be having potential wiring issues. If problem persist facility will need to further investigate the cause of the alarms.

Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-25-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST CMD/annual inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-27-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HW generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-07-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HW generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-09-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Conclude inspection
Eval Division: Riverside County Department of Env Health

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-13-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HW generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-13-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST annual inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-31-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CMD
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-05-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST follow up to verify CERS information and UST records submitted as required (overfill protection device testing still pending. items 20, 36 will be verified once a passing overfill device test report is approved by this department)
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-28-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HW generator follow up
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-28-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: UST follow up
Eval Division: Riverside County Department of Env Health

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Eval Program: UST
Eval Source: CERS,

Enforcement Action:

Site ID: 99082
Site Name: UCR Shell
Site Address: 3261 IOWA AVE
Site City: RIVERSIDE
Site Zip: 92507
Enf Action Date: 03-25-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Site Address: 3261 IOWA AVE
Site City: RIVERSIDE
Site Zip: 92507
Enf Action Date: 08-26-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside City Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 99082
Site Name: UCR Shell
Site Address: 3261 IOWA AVE
Site City: RIVERSIDE
Site Zip: 92507
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside City Fire Department
Enf Action Program: UNSPEC
Enf Action Source: CERS,

Coordinates:

Site ID: 99082
Facility Name: UCR Shell
Env Int Type Code: HWG
Program ID: 10496332
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 33.983350
Longitude: -117.340270

Affiliation:

Affiliation Type Desc: Identification Signer
Entity Name: Paul Vidakovich

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Entity Title: Consultant
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Eric Dransfield
Entity Title: Not reported
Affiliation Address: 3261 Iowa Avenue
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92507
Affiliation Phone: (951) 551-5750,

Affiliation Type Desc: UST Tank Owner
Entity Name: Eric Dransfield
Entity Title: Not reported
Affiliation Address: 3261 Iowa Ave
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92507
Affiliation Phone: 951-551-575-,

Affiliation Type Desc: Operator
Entity Name: Eric Dranfield
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 551-5750,

Affiliation Type Desc: Property Owner
Entity Name: Getty Leasing Inc
Entity Title: Not reported
Affiliation Address: 125 Jericho Turnpike #103
Affiliation City: Jericho
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 11753
Affiliation Phone: (860) 428-4432,

Affiliation Type Desc: UST Property Owner Name
Entity Name: Getty Leasiing
Entity Title: Not reported
Affiliation Address: 125 Jericho Turnpike #103
Affiliation City: Jericho
Affiliation State: NY
Affiliation Country: United States
Affiliation Zip: 11753
Affiliation Phone: (860) 428-4432,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Document Preparer
Entity Name: Paul Vidakovich
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: PAUL VIDAKOVICH-PCET INC
Entity Title: Not reported
Affiliation Address: 3720 Oceanic Way #205
Affiliation City: OCEANSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92054
Affiliation Phone: ,

Affiliation Type Desc: UST Tank Operator
Entity Name: Eric Dransfield
Entity Title: Not reported
Affiliation Address: 3261 Iowa Ave
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92507
Affiliation Phone: (951) 551-5750,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 3261 Iowa Avenue
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92507
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: UCR Shell
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Affiliation Zip: Not reported
Affiliation Phone: ,

Name: SHELL BLAINE
Address: 3261 IOWA AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 230715
CERS ID: T0606500371
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker
Entity Name: SHARON BOLTINGHOUSE - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980,

HWTS:

Name: UCR SHELL
Address: 3261 IOWA AVE
Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92507
EPA ID: CAL000407734
Inactive Date: Not reported
Create Date: 06/15/2015
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 3261 IOWA AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: RIVERSIDE, CA 92507
Owner Name: PETRO CONSULTING SERVICES LLC
Owner Address: 3680 W COTTONWOOD
Owner Address 2: Not reported
Owner City,State,Zip: REXBURG, ID 83440
Contact Name: ERIC DRANSFIELD
Contact Address: 3261 IOWA AVE
Contact Address 2: Not reported
City,State,Zip: RIVERSIDE, CA 92507
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 33.983298
Longitude: -117.340245

NAICS:

EPA ID: CAL000407734
Create Date: 2015-06-15 16:09:12.500
NAICS Code: 44719
NAICS Description: Other Gasoline Stations
Issued EPA ID Date: 2015-06-15 16:09:12.49700
Inactive Date: Not reported
Facility Name: UCR SHELL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL (Continued)

U001576545

Facility Address: 3261 IOWA AVE
Facility Address 2: Not reported
Facility City: RIVERSIDE
Facility County: Not reported
Facility State: CA
Facility Zip: 92507

G55
West
1/4-1/2
0.439 mi.
2318 ft.

BLAINE SHELL
3261 IOWA AVE
RIVERSIDE, CA 92507

LUST S105033180
N/A

Site 5 of 6 in cluster G

Relative:
Lower
Actual:
980 ft.

LUST REG 8:
Name: BLAINE SHELL
Address: 3261 IOWA AVE
City: RIVERSIDE
Region: 8
County: Riverside
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083302449T
Local Case Num: Not reported
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: BLAINE
Enf Type: Not reported
Funding: Federal Funds
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0606500371
How Stopped Date: 3/31/1994
Enter Date: 6/16/1994
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: Not reported
Discover Date: 3/31/1994
Enforcement Date: Not reported
Close Date: 5/16/1996
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported
Enter Date: 6/16/1994
GW Qualifies: Not reported
Soil Qualifies: Not reported
Operator: Not reported
Facility Contact: Not reported
Interim: Not reported
Oversite Program: LUST
Latitude: 33.9832774
Longitude: -117.3400601
MTBE Date: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BLAINE SHELL (Continued)

S105033180

Max MTBE GW:	Not reported									
MTBE Concentration:	0									
Max MTBE Soil:	Not reported									
MTBE Fuel:	1									
MTBE Tested:	Site NOT Tested for MTBE. Includes Unknown and Not Analyzed.									
MTBE Class:	*									
Staff:	CAB									
Staff Initials:	SCB									
Lead Agency:	Local Agency									
Local Agency:	33000L									
Hydr Basin #:	UPPER SANTA ANA VALL									
Beneficial:	Not reported									
Priority:	Not reported									
Cleanup Fund Id:	Not reported									
Work Suspended:	Not reported									
Summary:	<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">ADDITIONAL RP</td> <td style="width: 33%;">MIKE CLAUDIO</td> <td style="width: 33%;">BOBBY AND CYNTHIA</td> </tr> <tr> <td>MILLER SHELL OIL CO.</td> <td>3261 IOWA AVE.</td> <td>511</td> </tr> <tr> <td>BROOKHURST</td> <td>RIVERSIDE CA 92507</td> <td>ANAHEIM, CA 92803</td> </tr> </table>	ADDITIONAL RP	MIKE CLAUDIO	BOBBY AND CYNTHIA	MILLER SHELL OIL CO.	3261 IOWA AVE.	511	BROOKHURST	RIVERSIDE CA 92507	ANAHEIM, CA 92803
ADDITIONAL RP	MIKE CLAUDIO	BOBBY AND CYNTHIA								
MILLER SHELL OIL CO.	3261 IOWA AVE.	511								
BROOKHURST	RIVERSIDE CA 92507	ANAHEIM, CA 92803								

G56
West
 1/4-1/2
 0.439 mi.
 2318 ft.

SHELL IOWA AVENUE
3261 IOWA AVENUE
RIVERSIDE, CA 92507

LUST S106716773
N/A

Site 6 of 6 in cluster G

Relative:
Lower
Actual:
980 ft.

LUST REG 8:

Name:	SHELL IOWA AVENUE
Address:	3261 IOWA AVENUE
City:	RIVERSIDE
Region:	8
County:	Riverside
Regional Board:	Santa Ana Region
Facility Status:	Leak being confirmed
Case Number:	Not reported
Local Case Num:	200421108
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	BLAINE
Enf Type:	Not reported
Funding:	LOPF
How Discovered:	OM
How Stopped:	Other Means
Leak Cause:	Other Cause
Leak Source:	UNK
Global ID:	T0606575445
How Stopped Date:	Not reported
Enter Date:	Not reported
Date Confirmation of Leak Began:	12/14/2004
Date Preliminary Assessment Began:	Not reported
Discover Date:	11/15/2004
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SHELL IOWA AVENUE (Continued)

S106716773

Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LOCNL
Latitude:	0
Longitude:	0
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	SCB
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	Not reported
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

F57
SSW
1/4-1/2
0.471 mi.
2488 ft.

UNIVERSITY OF CALIFORNIA, RIVERSIDE
1160 UNIVERSITY AVENUE
RIVERSIDE, CA 92507
Site 3 of 3 in cluster F

LUST **S122356405**
Cortese **N/A**
CERS

Relative:
Lower
Actual:
1016 ft.

LUST:

Name:	UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address:	1160 UNIVERSITY AVENUE
City,State,Zip:	RIVERSIDE, CA 92507
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000011461
Global Id:	T10000011461
Latitude:	33.97514
Longitude:	-117.33699
Status:	Completed - Case Closed
Status Date:	03/21/2018
Case Worker:	MAO
RB Case Number:	Not reported
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

LUST:

Global Id:	T10000011461
Contact Type:	Regional Board Caseworker

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CALIFORNIA, RIVERSIDE (Continued)

S122356405

Contact Name: MIGUEL OVIEDO
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: miguel.oviedo@waterboards.ca.gov
Phone Number: 9517823238

LUST:

Global Id: T10000011461
Action Type: RESPONSE
Date: 01/19/2018
Action: Site Assessment Report

Global Id: T10000011461
Action Type: RESPONSE
Date: 01/19/2018
Action: Site Assessment Report

Global Id: T10000011461
Action Type: ENFORCEMENT
Date: 03/21/2018
Action: Closure/No Further Action Letter

LUST:

Global Id: T10000011461
Status: Open - Case Begin Date
Status Date: 01/19/2018

Global Id: T10000011461
Status: Informational Item / Review Complete
Status Date: 03/20/2018

Global Id: T10000011461
Status: Completed - Case Closed
Status Date: 03/21/2018

CORTESE:

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 1160 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Envirostor Id: Not reported
Global ID: T10000011461
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF CALIFORNIA, RIVERSIDE (Continued)

S122356405

Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:

Name: UNIVERSITY OF CALIFORNIA, RIVERSIDE
Address: 1160 UNIVERSITY AVENUE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 435873
CERS ID: T10000011461
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MIGUEL OVIEDO - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 Main Street, Suite 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517823238,

H58
SW
1/4-1/2
0.477 mi.
2521 ft.

TEXACO SERVICE STATION
1221 UNIVERSITY AVE
RIVERSIDE, CA 92507

Site 1 of 2 in cluster H

LUST
SWEEPS UST
CA FID UST
HIST CORTESE

S101590154
N/A

Relative:
Lower

LUST REG 8:

Name: TEXACO SERVICE STATION
Address: 1221 UNIVERSITY AVE
City: RIVERSIDE
Region: 8
County: Riverside
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083302877T
Local Case Num: 960698
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street: IOWA
Enf Type: CLOS
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0606500471
How Stopped Date: 10/16/1986
Enter Date: 9/16/1996

Actual:
1008 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION (Continued)

S101590154

Date Confirmation of Leak Began: 7/3/1996
Date Preliminary Assessment Began: Not reported
Discover Date: 7/3/1996
Enforcement Date: Not reported
Close Date: 7/28/1997
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: 6/21/1996
Date Remediation Plan Submitted: 8/20/1996
Date Remedial Action Underway: 10/11/1996
Date Post Remedial Action Monitoring: 4/30/1997
Enter Date: 9/16/1996
GW Qualifies: Not reported
Soil Qualifies: Not reported
Operator: Not reported
Facility Contact: Not reported
Interim: Not reported
Oversite Program: LUST
Latitude: 33.9757476
Longitude: -117.3379649
MTBE Date: Not reported
Max MTBE GW: Not reported
MTBE Concentration: 0
Max MTBE Soil: Not reported
MTBE Fuel: 1
MTBE Tested: Site NOT Tested for MTBE. Includes Unknown and Not Analyzed.
MTBE Class: *
Staff: RS
Staff Initials: UNK
Lead Agency: Local Agency
Local Agency: 33000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

SWEEPS UST:

Name: TEXACO STATION
Address: 1221 UNIVERSITY AVE
City: RIVERSIDE
Status: Active
Comp Number: 7317
Number: 1
Board Of Equalization: 44-000217
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 001008
SWRCB Tank Id: 33-000-007317-000002
Tank Status: A
Capacity: 12000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION (Continued)

S101590154

Name: TEXACO STATION
Address: 1221 UNIVERSITY AVE
City: RIVERSIDE
Status: Active
Comp Number: 7317
Number: 1
Board Of Equalization: 44-000217
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 001008
SWRCB Tank Id: 33-000-007317-000003
Tank Status: A
Capacity: 10000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: TEXACO STATION
Address: 1221 UNIVERSITY AVE
City: RIVERSIDE
Status: Active
Comp Number: 7317
Number: 1
Board Of Equalization: 44-000217
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 001008
SWRCB Tank Id: 33-000-007317-000004
Tank Status: A
Capacity: 10000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Name: TEXACO STATION
Address: 1221 UNIVERSITY AVE
City: RIVERSIDE
Status: Active
Comp Number: 7317
Number: 1
Board Of Equalization: 44-000217
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 001008
SWRCB Tank Id: 33-000-007317-000005
Tank Status: A
Capacity: 10000
Active Date: 11-19-92
Tank Use: M.V. FUEL
STG: P

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION (Continued)

S101590154

Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 33004934
Regulated By: UTNKA
Regulated ID: 00007317
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7147885275
Mail To: Not reported
Mailing Address: 299 W FOOTHILL BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: RIVERSIDE 92504
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:

edr_fname: TEXACO SERVICE STATION
edr_fadd1: 1221
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 083302877T

H59
SW
1/4-1/2
0.477 mi.
2521 ft.

TEXACO
1221 UNIVERSITY AVE
RIVERSIDE, CA 92507
Site 2 of 2 in cluster H

LUST **S103625973**
Cortese **N/A**
CERS

Relative:
Lower
Actual:
1008 ft.

LUST:

Name: TEXACO
Address: 1221 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Lead Agency: RIVERSIDE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500471
Global Id: T0606500471
Latitude: 33.9759457437572
Longitude: -117.338538053165
Status: Completed - Case Closed
Status Date: 07/28/1997
Case Worker: SCB
RB Case Number: 083302877T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Local Agency Warehouse
Local Case Number: 960698
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO (Continued)

S103625973

LUST:

Global Id: T0606500471
Contact Type: Local Agency Caseworker
Contact Name: SHARON BOLTINGHOUSE
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: sbolting@rivco.org
Phone Number: 9519558980

LUST:

Global Id: T0606500471
Action Type: Other
Date: 07/05/1996
Action: Leak Reported

Global Id: T0606500471
Action Type: REMEDIATION
Date: 07/18/1996
Action: Excavation

Global Id: T0606500471
Action Type: Other
Date: 10/16/1986
Action: Leak Stopped

Global Id: T0606500471
Action Type: RESPONSE
Date: 05/12/1997
Action: Other Report / Document

Global Id: T0606500471
Action Type: RESPONSE
Date: 02/10/1997
Action: Tank Removal Report / UST Sampling Report

Global Id: T0606500471
Action Type: RESPONSE
Date: 08/01/1996
Action: Soil and Water Investigation Report

Global Id: T0606500471
Action Type: RESPONSE
Date: 07/05/1996
Action: Unauthorized Release Form

Global Id: T0606500471
Action Type: ENFORCEMENT
Date: 07/28/1997
Action: Closure/No Further Action Letter - #RCDEH0728

Global Id: T0606500471
Action Type: ENFORCEMENT
Date: 07/27/1997
Action: File review - #RCDEH Upload Site File 10/29/2015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO (Continued)

S103625973

Global Id: T0606500471
Action Type: Other
Date: 07/03/1996
Action: Leak Discovery

LUST:

Global Id: T0606500471
Status: Open - Case Begin Date
Status Date: 10/16/1986

Global Id: T0606500471
Status: Open - Site Assessment
Status Date: 07/05/1996

Global Id: T0606500471
Status: Open - Site Assessment
Status Date: 07/08/1996

Global Id: T0606500471
Status: Open - Remediation
Status Date: 08/20/1996

Global Id: T0606500471
Status: Completed - Case Closed
Status Date: 07/28/1997

RIVERSIDE CO. LUST:

Name: TEXACO
Address: 1221 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA
Region: RIVERSIDE
Facility ID: 960698
Employee: Boltinghous-LOP
Site Closed: Yes
Case Type: Soil only
Facility Status: closed/action completed
Casetype Decode: Soil only is impacted
Fstatus Decode: Closed/Action completed

Name: TEXACO
Address: 1221 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA
Region: RIVERSIDE
Facility ID: 200117614
Employee: Boltinghous-LOP
Site Closed: Yes
Case Type: Soil only
Facility Status: closed/action completed
Casetype Decode: Soil only is impacted
Fstatus Decode: Closed/Action completed

Name: TEXACO
Address: 1221 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA
Region: RIVERSIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO (Continued)

S103625973

Facility ID: 200218406
Employee: Boltinghous-LOP
Site Closed: Referred to Water Board
Case Type: Drinking Water Aquifer affected
Facility Status: 0
Casetype Decode: An Aquifer used for Drinking Water supply has been contaminated.
Fstatus Decode: Not reported

CORTESE:

Name: TEXACO
Address: 1221 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500471
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:

Name: TEXACO
Address: 1221 UNIVERSITY AVE
City,State,Zip: RIVERSIDE, CA 92507
Site ID: 208442
CERS ID: T0606500471
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker
Entity Name: SHARON BOLTINGHOUSE - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

60
NW
1/2-1
0.639 mi.
3376 ft.

VALERION CORPORATION
2280 IOWA
RIVERSIDE, CA 92507

ENVIROSTOR S100201826
HIST CORTESE N/A

Relative:
Lower

ENVIROSTOR:

Actual:
965 ft.

Name: VALERION CORPORATION
Address: 2280 IOWA AVENUE
City,State,Zip: RIVERSIDE, CA 92507
Facility ID: 33280139
Status: Refer: Other Agency
Status Date: 08/12/1988
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 61
Senate: 31
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.99083
Longitude: -117.3394
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * Metals - Other Inorganic Solid Waste * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SLUDGE WASTE * UNSPECIFIED SOLVENT MIXTURES
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: GTE-VALERION.
Alias Type: Alternate Name
Alias Name: CAD980884415
Alias Type: EPA Identification Number
Alias Name: 33280139
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/22/1983
Comments: FACILITY IDENTIFIED ID FROM RWQCB COMPLAINTS 1980 FILE. CHEM BEING DISPOSED OF IN A PIT BEHIND PLANT. NOT KNOWN IF THE PIT IS LINED OR SPECIFIC CHEM USED. INSPECTOR REP: NO PROB EVIDENT AT SITE. COMPLAINT APPEARS TO BE UNFOUND.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/25/1994
Comments: CALSITES VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERION CORPORATION (Continued)

S100201826

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/12/1988
Comments: SITE SCREENING DONE NFA UNDER CERCLA RECOMMENDED BY FIT NFA UNDER SITE MITIGATION

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/01/1984
Comments: SOURCE ACT: T/C W/ E.SANTIMAW,GTE-VALERI (714)781-4382, 6/26/84 - MFG TUNGSTEN CARBIDE TOOLING. WASTE: METAL FILING, HEPTANE, OIL GRINDING SLUDGE,GRAPHITE. FAC TYPE: CTY OF RIVERSIDE INTER OFFICE MEMO, 1/15/81 - ILLEGAL DUMP OF OIL IN 2 AREAS. SUBMIT TO EPA PRELIM ASSESS DONE RCRA 3012

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST CORTESE:
edr_fname: VALERION CORPORATION
edr_fadd1: 2280 IOWA
City,State,Zip: RIVERSIDE, CA 92507
Region: CORTESE
Facility County Code: 33
Reg By: CALSI
Reg Id: 33280139

61
West
1/2-1
0.661 mi.
3488 ft.

**ARCO STATION #1841
1505 THIRD
RIVERSIDE, CA 90040**

**Notify 65 S100179165
N/A**

**Relative:
Lower
Actual:
952 ft.**

NOTIFY 65:
Name: ARCO STATION #1841
Address: 1505 THIRD
City,State,Zip: RIVERSIDE, CA 90040
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

62
WSW
1/2-1
0.760 mi.
4012 ft.

THERMOCLAD COMPANY
1541 7TH ST
RIVERSIDE, CA 92507

ENVIROSTOR S109422434
N/A

Relative:
Lower
Actual:
968 ft.

ENVIROSTOR:
Name: THERMOCLAD COMPANY
Address: 1541 7TH ST
City,State,Zip: RIVERSIDE, CA 92507
Facility ID: 60000209
Status: Inactive - Needs Evaluation
Status Date: 03/06/2006
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP, US EPA
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: * Greg Holmes
Division Branch: Cleanup Cypress
Assembly: 61
Senate: 31
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 33.97850
Longitude: -117.3455
APN: 250-161-009
Past Use: MANUFACTURING - CHEMICALS
Potential COC: Vinyl chloride
Confirmed COC: 30028-NO
Potential Description: NONE SPECIFIED
Alias Name: 250-161-009
Alias Type: APN
Alias Name: CAD981978539
Alias Type: EPA Identification Number
Alias Name: 110002762626
Alias Type: EPA (FRS #)
Alias Name: 14835
Alias Type: RB-PCA
Alias Name: 60000209
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/12/2006
Comments: EPA determined the site is not eligible for CERCLA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THERMOCLAD COMPANY (Continued)

S109422434

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

63
ESE
1/2-1
0.766 mi.
4045 ft.

RIVERSIDE USD-WATKINS STEM HIGH SCHOOL
SW CORNER OF WATKINS DR. AND VALENCIA HILL DR.
RIVERSIDE, CA 92507

ENVIROSTOR
SCH

S121475153
N/A

Relative:
Higher

Actual:
1147 ft.

ENVIROSTOR:

Name: RIVERSIDE USD-WATKINS STEM HIGH SCHOOL
Address: SW CORNER OF WATKINS DR. AND VALENCIA HILL DR.
City,State,Zip: RIVERSIDE, CA 92507
Facility ID: 60002583
Status: No Further Action
Status Date: 07/27/2018
Site Code: 404945
Site Type: School Investigation
Site Type Detailed: School
Acres: 6.1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Aslam Shareef
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: , 61
Senate: , 31
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.97890
Longitude: -117.3189
APN: NONE SPECIFIED
Past Use: SCHOOL - COLLEGE, AGRICULTURAL - ORCHARD
Potential COC: Chlordane DDD DDE DDT Endrin Toxaphene Aldrin Dieldrin Endosulfan
Heptachlor Heptachlor epoxide
Confirmed COC: 30004-NO 30006-NO 30007-NO 30008-NO 30010-NO 30023-NO 30043-NO
30207-NO 30261-NO 30308-NO 30309-NO
Potential Description: NMA
Alias Name: 404945
Alias Type: Project Code (Site Code)
Alias Name: 60002583
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/14/2018
Comments: DTSC Approved PEA Technical Memorandum

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/27/2018

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RIVERSIDE USD-WATKINS STEM HIGH SCHOOL (Continued)

S121475153

Comments: DTSC approved the Site with No Further action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/26/2018
Comments: DTSC Fieldwork Oversight

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 11/29/2017
Comments: District submitted application for an EOA via email on 11/29/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 03/24/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 03/28/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/01/2017
Comments: Annual Cost Estimate included w/ EOA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/13/2018
Comments: A copy of fully executed EOA sent to District.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: RIVERSIDE USD-WATKINS STEM HIGH SCHOOL
Address: SW CORNER OF WATKINS DR. AND VALENCIA HILL DR.
City,State,Zip: RIVERSIDE, CA 92507
Facility ID: 60002583
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RIVERSIDE USD-WATKINS STEM HIGH SCHOOL (Continued)

S121475153

Acres: 6.1
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Aslam Shareef
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404945
Assembly: , 61
Senate: , 31
Special Program Status: Not reported
Status: No Further Action
Status Date: 07/27/2018
Restricted Use: NO
Funding: School District
Latitude: 33.97890
Longitude: -117.3189
APN: NONE SPECIFIED
Past Use: SCHOOL - COLLEGE, AGRICULTURAL - ORCHARD
Potential COC: Chlordane, DDD, DDE, DDT, Endrin, Toxaphene, Aldrin, Dieldrin, Endosulfan, Heptachlor, Heptachlor epoxide
Confirmed COC: 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO, 30023-NO, 30043-NO, 30207-NO, 30261-NO, 30308-NO, 30309-NO
Potential Description: NMA
Alias Name: 404945
Alias Type: Project Code (Site Code)
Alias Name: 60002583
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/14/2018
Comments: DTSC Approved PEA Technical Memorandum

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/27/2018
Comments: DTSC approved the Site with No Further action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/26/2018
Comments: DTSC Fieldwork Oversight

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 11/29/2017
Comments: District submitted application for an EOA via email on 11/29/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RIVERSIDE USD-WATKINS STEM HIGH SCHOOL (Continued)

S121475153

Completed Date: 03/24/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 03/28/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/01/2017
Comments: Annual Cost Estimate included w/ EOA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/13/2018
Comments: A copy of fully executed EOA sent to District.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

64
WSW
1/2-1
0.912 mi.
4815 ft.

CALIFORNIA SPRAY CHEMICAL COMPANY
3530 CHICAGO AV
RIVERSIDE, CA 92507

ENVIROSTOR **S107735999**
N/A

Relative:
Lower
Actual:
953 ft.

ENVIROSTOR:
Name: CALIFORNIA SPRAY CHEMICAL COMPANY
Address: 3530 CHICAGO AV
City,State,Zip: RIVERSIDE, CA 92507
Facility ID: 60000214
Status: Inactive - Needs Evaluation
Status Date: 03/06/2006
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.37
NPL: NO
Regulatory Agencies: SMBRP, US EPA
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: * Greg Holmes
Division Branch: Cleanup Cypress
Assembly: 61
Senate: 31
Special Program: EPA - PASI
Restricted Use: NO

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CALIFORNIA SPRAY CHEMICAL COMPANY (Continued)

S107735999

Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 33.97835
Longitude: -117.3480
APN: 250160008
Past Use: FUEL - VEHICLE STORAGE/ REFUELING
Potential COC: Arsenic Methyl tertbutyl ether (MTBE)
Confirmed COC: 30001-NO 30016-NO
Potential Description: SOIL
Alias Name: 250160008
Alias Type: APN
Alias Name: CAN000908316
Alias Type: EPA Identification Number
Alias Name: 60000214
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/13/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
RIVERSIDE	S108985921	UCR (PESTICIDE PITS)	N/A UNIVERSITY AVENUE		CPS-SLIC
RIVERSIDE	S104970783	UCR - PARKING LOT 6	UNIVERSITY OF CALIF, RIVERSIDE		LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: N/A
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: N/A
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: 800-424-9346
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022	Source: EPA
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-424-9346
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/16/2022	Source: Department of the Navy
Date Data Arrived at EDR: 05/19/2022	Telephone: 843-820-7326
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/03/2022
Number of Days to Update: 71	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 06/15/2022

Telephone: 202-267-2180

Date Made Active in Reports: 06/21/2022

Last EDR Contact: 06/15/2022

Number of Days to Update: 6

Next Scheduled EDR Contact: 10/03/2022

Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/25/2022

Source: Department of Toxic Substances Control

Date Data Arrived at EDR: 04/26/2022

Telephone: 916-323-3400

Date Made Active in Reports: 07/15/2022

Last EDR Contact: 07/25/2022

Number of Days to Update: 80

Next Scheduled EDR Contact: 11/07/2022

Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/25/2022

Source: Department of Toxic Substances Control

Date Data Arrived at EDR: 04/26/2022

Telephone: 916-323-3400

Date Made Active in Reports: 07/15/2022

Last EDR Contact: 07/25/2022

Number of Days to Update: 80

Next Scheduled EDR Contact: 11/07/2022

Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/09/2022

Source: Department of Resources Recycling and Recovery

Date Data Arrived at EDR: 05/09/2022

Telephone: 916-341-6320

Date Made Active in Reports: 07/29/2022

Last EDR Contact: 08/08/2022

Number of Days to Update: 81

Next Scheduled EDR Contact: 11/21/2022

Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 07/18/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/23/2022	Telephone: see region list
Date Made Active in Reports: 05/24/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 1	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4896
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3372
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021	Source: EPA Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-6597
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022	Source: EPA, Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-7439
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/23/2022	Telephone: 866-480-1028
Date Made Active in Reports: 05/24/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 1	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2022
Date Data Arrived at EDR: 06/09/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6137
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022	Source: EPA Region 9
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3368
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-7591
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022	Source: EPA Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-6136
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 07/19/2022
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/06/2022	Source: Department of Conservation
Date Data Arrived at EDR: 06/07/2022	Telephone: 916-323-3836
Date Made Active in Reports: 08/23/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 08/12/2022	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 08/16/2022	Telephone: 916-341-6422
Date Made Active in Reports: 08/26/2022	Last EDR Contact: 08/16/2022
Number of Days to Update: 10	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/21/2022
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/12/2022
Number of Days to Update: 137	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/21/2022
Number of Days to Update: 176	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 04/30/2022	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 05/24/2022	Telephone: 202-307-1000
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/18/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/25/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/26/2022	Telephone: 916-323-3400
Date Made Active in Reports: 07/15/2022	Last EDR Contact: 07/25/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/20/2021	Telephone: 916-255-6504
Date Made Active in Reports: 04/08/2021	Last EDR Contact: 08/23/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/18/2022	Source: CalEPA
Date Data Arrived at EDR: 04/19/2022	Telephone: 916-323-2514
Date Made Active in Reports: 07/12/2022	Last EDR Contact: 07/18/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/30/2022	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 05/24/2022	Telephone: 202-307-1000
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/18/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/06/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/07/2022	Telephone: 866-480-1028
Date Made Active in Reports: 08/24/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 02/20/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/10/2021	Telephone: 916-341-5455
Date Made Active in Reports: 02/25/2022	Last EDR Contact: 06/10/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/05/2022	Source: San Francisco County Department of Public Health
Date Data Arrived at EDR: 05/06/2022	Telephone: 415-252-3896
Date Made Active in Reports: 07/21/2022	Last EDR Contact: 07/26/2022
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/18/2022	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 04/19/2022	Telephone: 916-323-2514
Date Made Active in Reports: 07/12/2022	Last EDR Contact: 07/18/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/25/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/26/2022	Telephone: 916-323-3400
Date Made Active in Reports: 08/11/2022	Last EDR Contact: 08/23/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/26/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/02/2022	Telephone: 202-564-6023
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 05/31/2022	Source: DTSC and SWRCB
Date Data Arrived at EDR: 05/31/2022	Telephone: 916-323-3400
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 08/25/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/21/2022	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/21/2022	Telephone: 202-366-4555
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/03/2022	Source: Office of Emergency Services
Date Data Arrived at EDR: 04/19/2022	Telephone: 916-845-8400
Date Made Active in Reports: 07/12/2022	Last EDR Contact: 07/18/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022	Source: State Water Quality Control Board
Date Data Arrived at EDR: 05/23/2022	Telephone: 866-480-1028
Date Made Active in Reports: 05/24/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 1	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/23/2022	Telephone: 866-480-1028
Date Made Active in Reports: 05/24/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 1	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/11/2022	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 05/17/2022	Telephone: 202-528-4285
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021	Source: USGS
Date Data Arrived at EDR: 07/13/2021	Telephone: 888-275-8747
Date Made Active in Reports: 03/09/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 239	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/08/2022
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: 202-564-6023
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 07/08/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/28/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/10/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 06/14/2022	Telephone: 301-415-7169
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 08/25/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 08/25/2022
Number of Days to Update: 251	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 08/04/2022
Number of Days to Update: 96	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/23/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 04/14/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/24/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 14

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 68

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 08/30/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/13/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 13

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 08/22/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/02/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/05/2022	Telephone: 202-564-2280
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 07/01/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/16/2022	Source: EPA
Date Data Arrived at EDR: 05/17/2022	Telephone: 800-385-6164
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/21/2022	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 03/21/2022	Telephone: 916-323-3400
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/09/2022	Telephone: 925-454-2361
Date Made Active in Reports: 05/17/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 8	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/20/2022
Date Data Arrived at EDR: 05/20/2022
Date Made Active in Reports: 08/09/2022
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 77

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/12/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 42

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/19/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/09/2022
Date Data Arrived at EDR: 08/10/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 20

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 877-786-9427
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/27/2022
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/06/2022	Source: Department of Conservation
Date Data Arrived at EDR: 06/07/2022	Telephone: 916-322-1080
Date Made Active in Reports: 08/23/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/06/2022	Source: Department of Public Health
Date Data Arrived at EDR: 05/31/2022	Telephone: 916-558-1784
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 08/25/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/09/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/09/2022	Telephone: 916-445-9379
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/08/2022
Number of Days to Update: 81	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 05/31/2022	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 05/31/2022	Telephone: 916-445-4038
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 08/25/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/06/2022	Source: Department of Conservation
Date Data Arrived at EDR: 06/07/2022	Telephone: 916-323-3836
Date Made Active in Reports: 08/23/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/10/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/10/2022	Telephone: 916-445-3846
Date Made Active in Reports: 08/26/2022	Last EDR Contact: 06/09/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/06/2022	Source: Department of Conservation
Date Data Arrived at EDR: 06/07/2022	Telephone: 916-445-2408
Date Made Active in Reports: 08/23/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 05/23/2022	Source: State Water Resource Control Board
Date Data Arrived at EDR: 05/23/2022	Telephone: 866-480-1028
Date Made Active in Reports: 06/02/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 10	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021	Source: RWQCB, Central Valley Region
Date Data Arrived at EDR: 07/01/2021	Telephone: 559-445-5577
Date Made Active in Reports: 09/29/2021	Last EDR Contact: 07/08/2022
Number of Days to Update: 90	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/09/2022
Number of Days to Update: 9	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 06/14/2022
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 05/23/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/23/2022	Telephone: 866-480-1028
Date Made Active in Reports: 06/02/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 10	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/16/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014	Source: EPA
Date Data Arrived at EDR: 01/06/2015	Telephone: 202-564-2496
Date Made Active in Reports: 05/06/2015	Last EDR Contact: 06/28/2022
Number of Days to Update: 120	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018	Source: USGS
Date Data Arrived at EDR: 10/21/2019	Telephone: 703-648-6533
Date Made Active in Reports: 10/24/2019	Last EDR Contact: 08/17/2022
Number of Days to Update: 3	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2022
Date Data Arrived at EDR: 06/29/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA AMADOR: CUPA Facility List Cupa Facility List

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 07/27/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 5

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 09/02/2022
Number of Days to Update: 79

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/21/2022
Date Data Arrived at EDR: 04/22/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List

A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 81

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LAKE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 02/10/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 82

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 8

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 04/12/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 84

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/11/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 06/14/2022
Number of Days to Update: 58	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 01/12/2022	Telephone: 626-458-6973
Date Made Active in Reports: 04/04/2022	Last EDR Contact: 07/06/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/13/2022	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 03/21/2022	Telephone: 213-978-3800
Date Made Active in Reports: 06/15/2022	Last EDR Contact: 06/24/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/13/2022	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 03/21/2022	Telephone: 213-978-3800
Date Made Active in Reports: 06/15/2022	Last EDR Contact: 06/24/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021	Source: Community Health Services
Date Data Arrived at EDR: 07/09/2021	Telephone: 323-890-7806
Date Made Active in Reports: 09/29/2021	Last EDR Contact: 07/14/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 07/06/2022
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 07/12/2022
Number of Days to Update: 65	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/20/2022	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 04/21/2022	Telephone: 310-618-2973
Date Made Active in Reports: 07/12/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/12/2020	Telephone: 559-675-7823
Date Made Active in Reports: 10/23/2020	Last EDR Contact: 08/09/2022
Number of Days to Update: 72	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 10/04/2018	Telephone: 415-473-6647
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 06/22/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021	Source: Department of Public Health
Date Data Arrived at EDR: 11/18/2021	Telephone: 707-463-4466
Date Made Active in Reports: 11/22/2021	Last EDR Contact: 08/16/2022
Number of Days to Update: 4	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Annually

MERCED COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA MERCED: CUPA Facility List CUPA facility list.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/11/2022
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List CUPA facility list.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/21/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 3

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/03/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 06/01/2022
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/30/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 06/30/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 5

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/30/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 6

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/12/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 6

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/31/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/27/2021
Date Data Arrived at EDR: 03/04/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 88

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 75

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN FRANCISCO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing

a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/27/2022
Number of Days to Update: 97

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List

Cupa Facility List.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/04/2022
Number of Days to Update: 78

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SAN MATEO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 08/29/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/04/2022
Number of Days to Update: 78

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List Cupa Facility list

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List

Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/11/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 05/03/2022
Date Data Arrived at EDR: 05/27/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 76

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

TULARE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 04/28/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/22/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 04/28/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 78

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2022	Source: Environmental Health Division
Date Data Arrived at EDR: 06/07/2022	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 03/24/2022	Source: Yolo County Department of Health
Date Data Arrived at EDR: 03/31/2022	Telephone: 530-666-8646
Date Made Active in Reports: 06/27/2022	Last EDR Contact: 06/22/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 05/03/2022	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 05/05/2022	Telephone: 530-749-7523
Date Made Active in Reports: 07/28/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/08/2022	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 05/09/2022	Telephone: 860-424-3375
Date Made Active in Reports: 07/28/2022	Last EDR Contact: 08/08/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 06/28/2022
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/10/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/29/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

STEM EDUCATION CENTER
900 UNIVERSITY AVE
RIVERSIDE, CA 92507

TARGET PROPERTY COORDINATES

Latitude (North):	33.982092 - 33° 58' 55.53"
Longitude (West):	117.331998 - 117° 19' 55.19"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	469333.5
UTM Y (Meters):	3760025.8
Elevation:	1031 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12014858 RIVERSIDE EAST, CA
Version Date:	2018

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

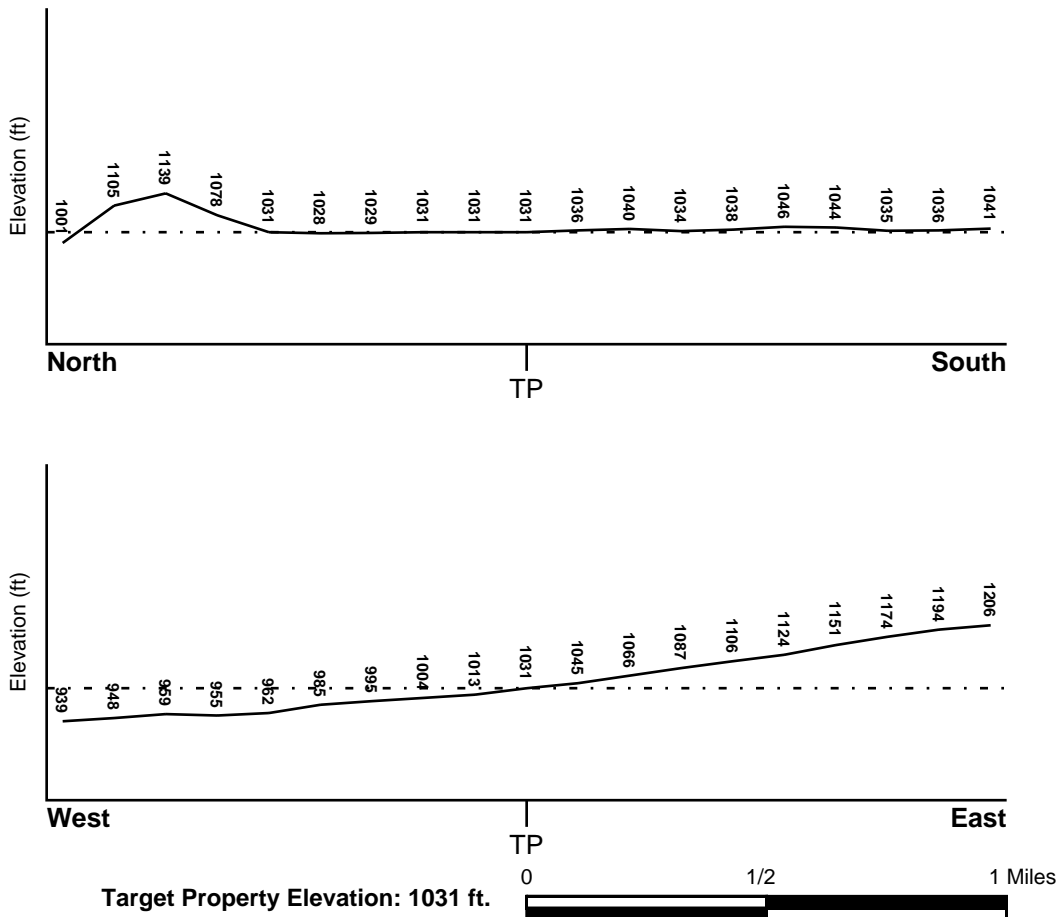
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06065C0727G	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06065C0726G	FEMA FIRM Flood data
06065C0729G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
B4	1/4 - 1/2 Mile West	W
B5	1/4 - 1/2 Mile West	W
B8	1/4 - 1/2 Mile West	Not Reported
B9	1/4 - 1/2 Mile West	Not Reported
B10	1/4 - 1/2 Mile West	Not Reported
21	1/2 - 1 Mile West	NW
1G	1/4 - 1/2 Mile West	W

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
2G	1/4 - 1/2 Mile West	W
3G	1/4 - 1/2 Mile West	Not Reported
4G	1/4 - 1/2 Mile West	Not Reported
5G	1/4 - 1/2 Mile West	Not Reported
6G	1/2 - 1 Mile West	NW

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

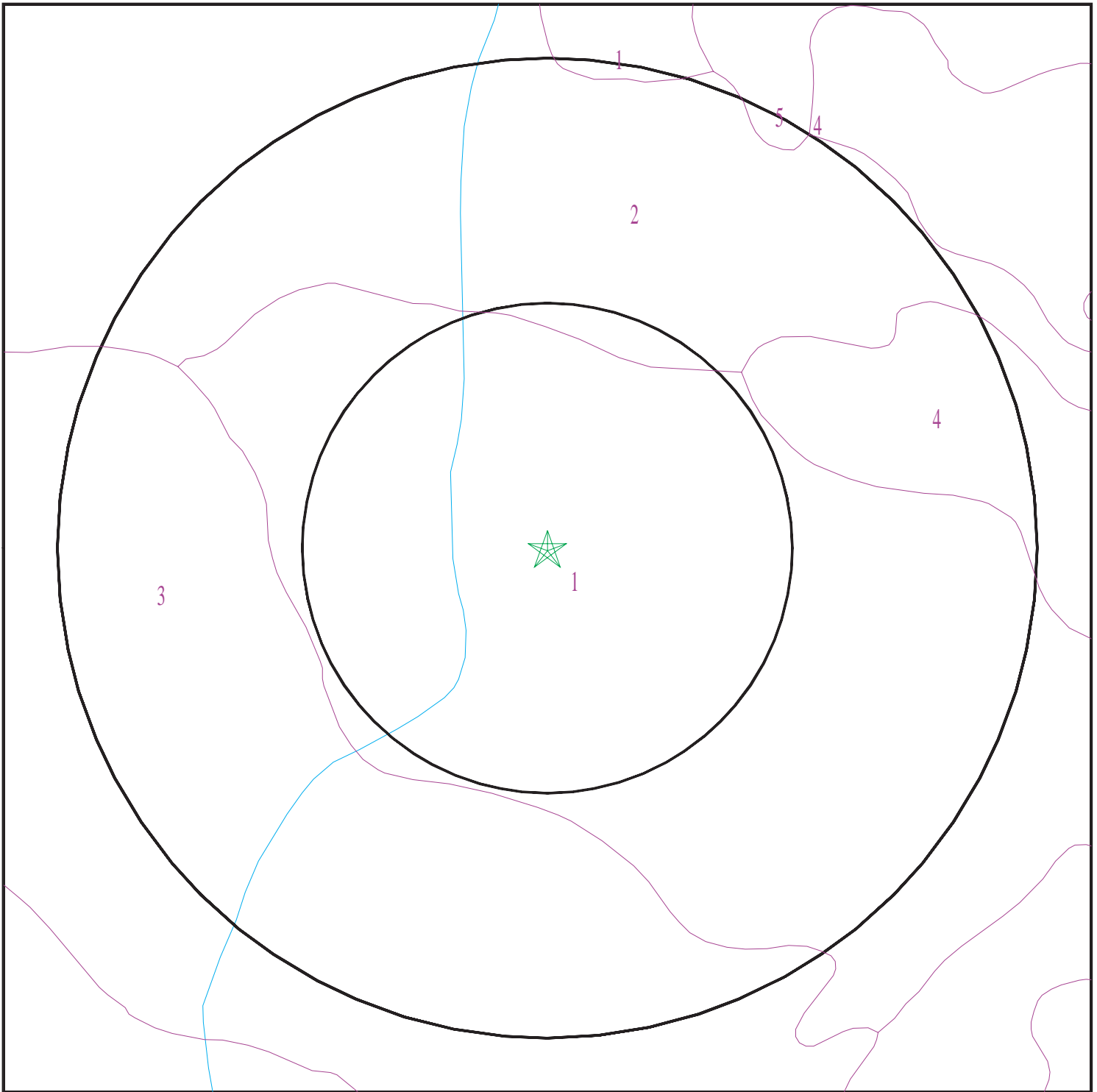
Era: Mesozoic
System: Cretaceous
Series: Cretaceous granitic rocks
Code: Kg *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

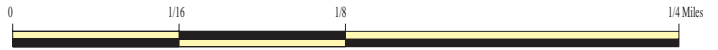
Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7107721.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: STEM Education Center
ADDRESS: 900 University Ave
Riverside CA 92507
LAT/LONG: 33.982092 / 117.331998

CLIENT: PlaceWorks
CONTACT: Denise Clendening
INQUIRY #: 7107721.2s
DATE: September 06, 2022 1:39 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: BUREN

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
2	11 inches	27 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
3	27 inches	37 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
4	37 inches	57 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: HANFORD

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
2	7 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
3	40 inches	59 inches	stratified loamy sand to coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

Soil Map ID: 3

Soil Component Name: ARLINGTON

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
2	11 inches	50 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
3	50 inches	59 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
4	59 inches	70 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

Soil Map ID: 4

Soil Component Name: ARLINGTON

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
2	11 inches	24 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
3	24 inches	35 inches	cemented	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
4	35 inches	46 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

Soil Map ID: 5

Soil Component Name: MONSERATE

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 8.4 Min: 6.6
2	9 inches	27 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 8.4 Min: 6.6
3	27 inches	44 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 8.4 Min: 6.6
4	44 inches	57 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 8.4 Min: 6.6
5	57 inches	70 inches	loamy coarse sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

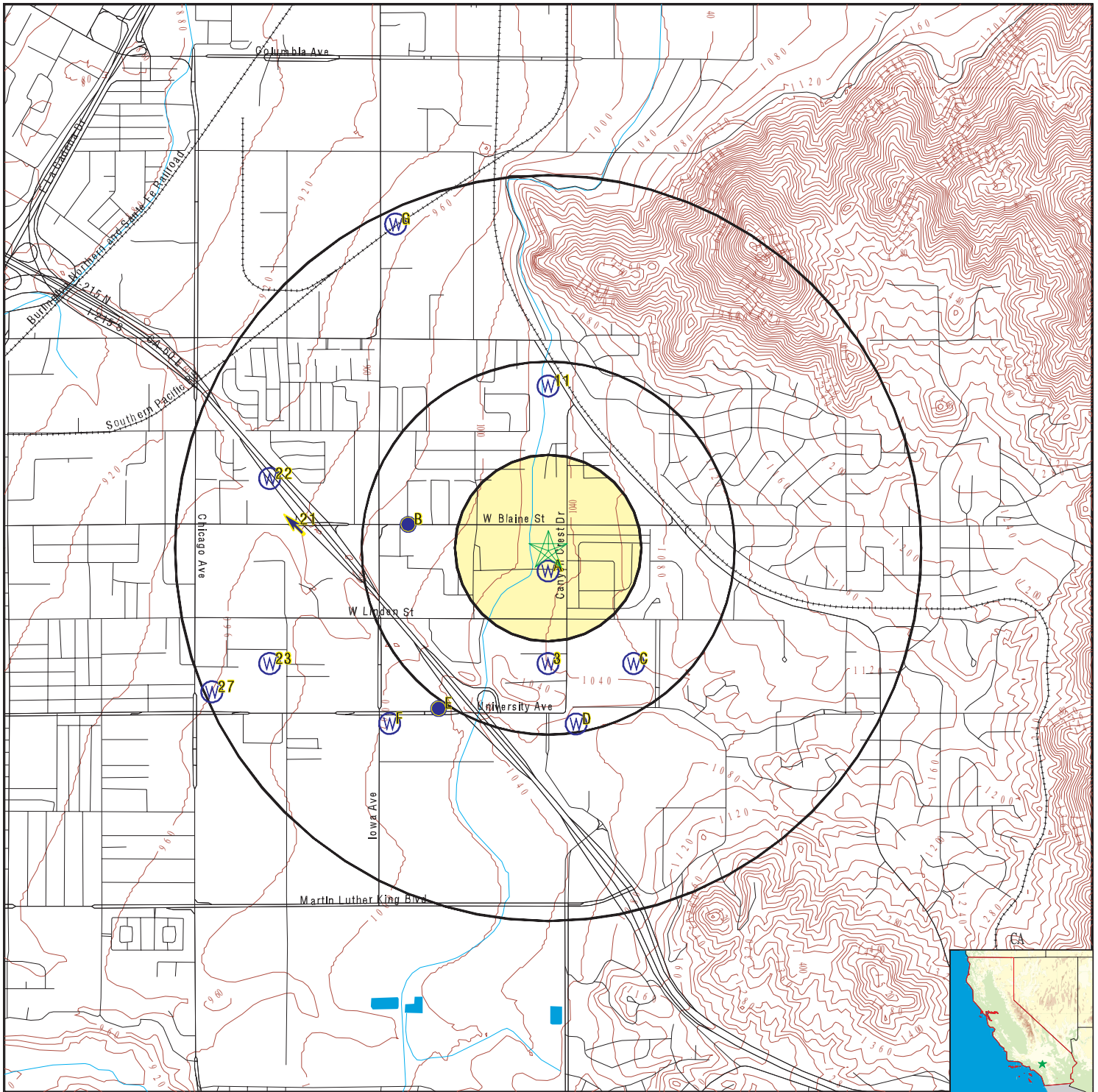
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

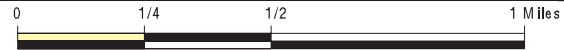
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	CADWR0000029597	0 - 1/8 Mile South
A2	CADWR0000034309	0 - 1/8 Mile South
3	CADWR0000022672	1/4 - 1/2 Mile South
C6	CADWR0000018755	1/4 - 1/2 Mile SE
C7	CADWR0000020667	1/4 - 1/2 Mile SE
11	CADWR0000034041	1/4 - 1/2 Mile North
D12	2484	1/4 - 1/2 Mile South
D13	CADDW0000019051	1/4 - 1/2 Mile SSE
E14	CAEDF0000038948	1/2 - 1 Mile SW
E15	CAEDF0000053351	1/2 - 1 Mile SSW
E16	CAEDF0000046801	1/2 - 1 Mile SSW
F18	CAEDF0000066821	1/2 - 1 Mile SW
F19	CAEDF0000081968	1/2 - 1 Mile SW
F20	CAEDF0000097649	1/2 - 1 Mile SW
22	CADWR0000005081	1/2 - 1 Mile WNW
23	CADWR0000015165	1/2 - 1 Mile WSW
G24	3078	1/2 - 1 Mile NNW
G25	CADDW0000011437	1/2 - 1 Mile NNW
G26	2514	1/2 - 1 Mile NNW
27	CAEDF0000110560	1/2 - 1 Mile WSW

PHYSICAL SETTING SOURCE MAP - 7107721.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: STEM Education Center
 ADDRESS: 900 University Ave
 Riverside CA 92507
 LAT/LONG: 33.982092 / 117.331998

CLIENT: PlaceWorks
 CONTACT: Denise Clendening
 INQUIRY #: 7107721.2s
 DATE: September 06, 2022 1:39 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
South
0 - 1/8 Mile
Higher

CA WELLS CADWR0000029597

Well ID:	02S04W19J001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W19J001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W19J001S&store_num=		
GeoTracker Data:	Not Reported		

A2
South
0 - 1/8 Mile
Higher

CA WELLS CADWR0000034309

Well ID:	02S04W19J002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W19J002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W19J002S&store_num=		
GeoTracker Data:	Not Reported		

3
South
1/4 - 1/2 Mile
Higher

CA WELLS CADWR0000022672

Well ID:	02S04W19R001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W19R001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W19R001S&store_num=		
GeoTracker Data:	Not Reported		

B4
West
1/4 - 1/2 Mile
Lower

AQUIFLOW 39020

Site ID:	083300601T
Groundwater Flow:	W
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	160
Date:	10/29/1987

B5
West
1/4 - 1/2 Mile
Lower

AQUIFLOW 66355

Site ID:	083300601T
Groundwater Flow:	W
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	160'
Date:	10/29/1987

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C6
SE
1/4 - 1/2 Mile
Higher

CA WELLS CADWR0000018755

Well ID:	02S04W20N003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W20N003S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W20N003S&store_num=		
GeoTracker Data:	Not Reported		

C7
SE
1/4 - 1/2 Mile
Higher

CA WELLS CADWR0000020667

Well ID:	02S04W20N001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W20N001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W20N001S&store_num=		
GeoTracker Data:	Not Reported		

B8
West
1/4 - 1/2 Mile
Lower

AQUIFLOW 54881

Site ID:	083303149T
Groundwater Flow:	Not Reported
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	100
Date:	05/29/1998

B9
West
1/4 - 1/2 Mile
Lower

AQUIFLOW 54882

Site ID:	083303149T
Groundwater Flow:	Not Reported
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	100
Date:	05/29/1998

B10
West
1/4 - 1/2 Mile
Lower

AQUIFLOW 54880

Site ID:	083303149T
Groundwater Flow:	Not Reported
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	100
Date:	05/29/1998

11
North
1/4 - 1/2 Mile
Lower

CA WELLS CADWR0000034041

Well ID:	02S04W19A001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W19A001S	GAMA PFAS Testing:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W19A001S&store_num=
 GeoTracker Data: Not Reported

**D12
South
1/4 - 1/2 Mile
Higher**

CA WELLS 2484

Seq:	2484	Prim sta c:	02S/05W-01G02 S
Frds no:	3310031094	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	UCR MAIN - STANDBY	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335831.9	Longitude:	1171949.2
Precision:	1	Status:	SU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

**D13
SSE
1/4 - 1/2 Mile
Higher**

CA WELLS CADDW0000019051

Well ID:	3310031-094	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	UCR MAIN - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-094&store_num=		
GeoTracker Data:	Not Reported		

**E14
SW
1/2 - 1 Mile
Lower**

CA WELLS CAEDF0000038948

Well ID:	T0606500586-MW01	Well Type:	MONITORING
Source:	EDF	Other Name:	MW01
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500586&assigned_name=MW01&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500586&assigned_name=MW01		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E15
SSW
1/2 - 1 Mile
Lower

CA WELLS CAEDF0000053351

Well ID:	T0606500586-MW04	Well Type:	MONITORING
Source:	EDF	Other Name:	MW04
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500586&assigned_name=MW04&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500586&assigned_name=MW04		

E16
SSW
1/2 - 1 Mile
Lower

CA WELLS CAEDF0000046801

Well ID:	T0606500586-MW02	Well Type:	MONITORING
Source:	EDF	Other Name:	MW02
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500586&assigned_name=MW02&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500586&assigned_name=MW02		

E17
SW
1/2 - 1 Mile
Lower

AQUIFLOW 50809

Site ID:	083302877T
Groundwater Flow:	Not Reported
Shallow Water Depth:	100
Deep Water Depth:	110
Average Water Depth:	Not Reported
Date:	06/03/1997

F18
SW
1/2 - 1 Mile
Lower

CA WELLS CAEDF0000066821

Well ID:	T0606500545-TOC-17	Well Type:	MONITORING
Source:	EDF	Other Name:	TOC-17
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500545&assigned_name=TOC-17&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500545&assigned_name=TOC-17		

F19
SW
1/2 - 1 Mile
Lower

CA WELLS CAEDF0000081968

Well ID:	T0606500545-TOC-18	Well Type:	MONITORING
Source:	EDF	Other Name:	TOC-18

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

GAMA PFAS Testing: Not Reported
 Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500545&assigned_name=TOC-18&store_num=
 GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500545&assigned_name=TOC-18

**F20
SW
1/2 - 1 Mile
Lower**

CA WELLS CAEDF0000097649

Well ID: T0606500545-TOC-19 Well Type: MONITORING
 Source: EDF Other Name: TOC-19
 GAMA PFAS Testing: Not Reported
 Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500545&assigned_name=TOC-19&store_num=
 GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500545&assigned_name=TOC-19

**21
West
1/2 - 1 Mile
Lower**

AQUIFLOW 34251

Site ID: 083301200T
 Groundwater Flow: NW
 Shallow Water Depth: Not Reported
 Deep Water Depth: Not Reported
 Average Water Depth: 150'
 Date: 10/30/1998

**22
WNW
1/2 - 1 Mile
Lower**

CA WELLS CADWR0000005081

Well ID: 02S04W19E001S Well Type: UNK
 Source: Department of Water Resources
 Other Name: 02S04W19E001S GAMA PFAS Testing: Not Reported
 Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W19E001S&store_num=
 GeoTracker Data: Not Reported

**23
WSW
1/2 - 1 Mile
Lower**

CA WELLS CADWR0000015165

Well ID: 02S04W19N001S Well Type: UNK
 Source: Department of Water Resources
 Other Name: 02S04W19N001S GAMA PFAS Testing: Not Reported
 Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W19N001S&store_num=
 GeoTracker Data: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

G24
NNW
1/2 - 1 Mile
Lower

CA WELLS 3078

Seq:	3078	Prim sta c:	033/031-009
Frds no:	3310031054	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	INDUSTRIAL BSTR - DISTRIBUTION	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	335940.2	Longitude:	1172018.8
Precision:	1	Status:	DR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

Sample date:	27-JAN-15	Finding:	2.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		

Sample date:	27-JAN-15	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

Sample date:	04-NOV-14	Finding:	5.8e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		

Sample date:	04-NOV-14	Finding:	1.3
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		

Sample date:	04-NOV-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		

Sample date:	04-NOV-14	Finding:	5100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		

Sample date:	04-NOV-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		

Sample date:	04-NOV-14	Finding:	600.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		

Sample date:	04-NOV-14	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	04-NOV-14	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-14	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-14	Finding:	58.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-14	Finding:	9.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-14	Finding:	47.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-14	Finding:	3.4
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-14	Finding:	30.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-14	Finding:	74.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	04-NOV-14	Finding:	0.55
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	04-NOV-14	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	04-NOV-14	Finding:	180.
Chemical:	BORON	Report units:	UG/L
Dir:	100.		
Sample date:	04-NOV-14	Finding:	1.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	04-NOV-14	Finding:	7.4
Chemical:	VANADIUM	Report units:	UG/L
Dir:	3.		
Sample date:	04-NOV-14	Finding:	3.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	04-NOV-14	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	04-NOV-14	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	04-NOV-14	Finding:	3.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	04-NOV-14	Finding:	390.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-14	Finding:	0.81
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	12-MAR-13	Finding:	610.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	12-MAR-13	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	12-MAR-13	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	210.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	67.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	9.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	47.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	3.4
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	37.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	72.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	12-MAR-13	Finding:	0.51
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	12-MAR-13	Finding:	2.2
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	12-MAR-13	Finding:	160.
Chemical:	BORON	Report units:	UG/L
Dir:	100.		
Sample date:	12-MAR-13	Finding:	1.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	12-MAR-13	Finding:	6.3
Chemical:	VANADIUM	Report units:	UG/L
Dir:	3.		
Sample date:	12-MAR-13	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	4.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	12-MAR-13	Finding:	2.2
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	12-MAR-13	Finding:	2.4
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	12-MAR-13	Finding:	400.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	12-MAR-13	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	12-MAR-13	Finding:	0.13
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	12-MAR-13	Finding:	5.6
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		
Sample date:	12-MAR-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	12-MAR-13	Finding:	5300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.4		
Sample date:	12-MAR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	09-OCT-12	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	11-SEP-12	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	14-AUG-12	Finding:	560.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	14-AUG-12	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	14-AUG-12	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	160.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	60.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	8.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	45.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	3.6
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	77.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	14-AUG-12	Finding:	0.57
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	14-AUG-12	Finding:	3.6
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	14-AUG-12	Finding:	170.
Chemical:	BORON	Report units:	UG/L
Dir:	100.		
Sample date:	14-AUG-12	Finding:	2.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	14-AUG-12	Finding:	64.
Chemical:	MANGANESE	Report units:	UG/L
Dir:	20.		
Sample date:	14-AUG-12	Finding:	7.9
Chemical:	VANADIUM	Report units:	UG/L
Dir:	3.		
Sample date:	14-AUG-12	Finding:	2.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	3.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	14-AUG-12	Finding:	16.
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	14-AUG-12	Finding:	6.9
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	14-AUG-12	Finding:	12.
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	14-AUG-12	Finding:	370.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	0.68
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	14-AUG-12	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	14-AUG-12	Finding:	6.7e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	14-AUG-12	Finding:	36.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	14-AUG-12	Finding:	4900.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	14-AUG-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	14-AUG-12	Finding:	3.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	24-JUL-12	Finding:	0.7
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		
Sample date:	24-JUL-12	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	12-JUN-12	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	22-MAY-12	Finding:	9.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	22-MAY-12	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	22-MAY-12	Finding:	0.94
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	22-MAY-12	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	3.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	22-MAY-12	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	6.4
Chemical:	VANADIUM	Report units:	UG/L
Dir:	3.		
Sample date:	22-MAY-12	Finding:	2.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	22-MAY-12	Finding:	170.
Chemical:	BORON	Report units:	UG/L
Dir:	100.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	22-MAY-12	Finding:	0.57
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	22-MAY-12	Finding:	73.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	22-MAY-12	Finding:	25.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	3.5
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	46.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	8.3
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	61.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	190.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	160.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	22-MAY-12	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	22-MAY-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	22-MAY-12	Finding:	4600.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	22-MAY-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	22-MAY-12	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	2.		
Sample date:	27-MAR-12	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	23-FEB-12	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dir:	4.		
Sample date:	23-FEB-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	23-FEB-12	Finding:	0.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	7.8e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	23-FEB-12	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	23-FEB-12	Finding:	0.77
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	23-FEB-12	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	3.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	23-FEB-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	4.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	23-FEB-12	Finding:	6.3
Chemical:	VANADIUM	Report units:	UG/L
Dir:	3.		
Sample date:	23-FEB-12	Finding:	2.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	23-FEB-12	Finding:	180.
Chemical:	BORON	Report units:	UG/L
Dir:	100.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	23-FEB-12	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	23-FEB-12	Finding:	0.58
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	23-FEB-12	Finding:	76.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	23-FEB-12	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	3.8
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	9.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	64.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	23-FEB-12	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	23-FEB-12	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	23-FEB-12	Finding:	5300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	14-FEB-12	Finding:	25.
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

G25
NNW
1/2 - 1 Mile
Lower

CA WELLS CADDW0000011437

Well ID:	3310031-018	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	FAIRMOUNT WELL 02 - AGRICULTURAL		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-018&store_num=		
GeoTracker Data:	Not Reported		

G26
NNW
1/2 - 1 Mile
Lower

CA WELLS 2514

Seq:	2514	Prim sta c:	02S/05W-14E01 S
Frds no:	3310031018	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	FAIRMOUNT WELL 02 - AGRICULTURAL	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335941.9	Longitude:	1172019.5
Precision:	1	Status:	AG
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

27
WSW
1/2 - 1 Mile
Lower

CA WELLS CAEDF0000110560

Well ID:	T0606586370-MW4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606586370&assigned_name=MW4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606586370&assigned_name=MW4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
1G	West	1/4 - 1/2 Mile	Lower		
	Site ID:	083300601T		AQUIFLOW	39020
	Groundwater Flow:	W			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	160			
	Date:	10/29/1987			
2G	West	1/4 - 1/2 Mile	Lower		
	Site ID:	083300601T		AQUIFLOW	66355
	Groundwater Flow:	W			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	160'			
	Date:	10/29/1987			
3G	West	1/4 - 1/2 Mile	Lower		
	Site ID:	083303149T		AQUIFLOW	54881
	Groundwater Flow:	Not Reported			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	100			
	Date:	05/29/1998			
4G	West	1/4 - 1/2 Mile	Lower		
	Site ID:	083303149T		AQUIFLOW	54882
	Groundwater Flow:	Not Reported			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	100			
	Date:	05/29/1998			
5G	West	1/4 - 1/2 Mile	Lower		
	Site ID:	083303149T		AQUIFLOW	54880
	Groundwater Flow:	Not Reported			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	100			
	Date:	05/29/1998			
6G	West	1/2 - 1 Mile	Lower		
	Site ID:	083301200T		AQUIFLOW	34251
	Groundwater Flow:	NW			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	150'			
	Date:	10/30/1998			
7G	SW	1/2 - 1 Mile	Lower		
	Site ID:	083302877T		AQUIFLOW	50809
	Groundwater Flow:	Not Reported			
	Shallow Water Depth:	100			
	Deep Water Depth:	110			
	Average Water Depth:	Not Reported			
	Date:	06/03/1997			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92507	43	0

Federal EPA Radon Zone for RIVERSIDE County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is California's comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Health Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix D. Health and Safety Plan

Appendix

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October 2019 | Health and Safety Plan

PROPOSED BLAINE STEM ACADEMY

for Riverside Unified School District

Prepared for:

Riverside Unified School District

Contact: Nadia Zeien, Assistant Director of Planning and Development
3070 Washington Street
Riverside, CA 92504

Project Number:

RIV-26.0

Prepared by:

PlaceWorks

Contact: Denise Clendening, Ph.D., Associate Principal
2850 Inland Empire Boulevard, Suite B
Ontario, California 91764
909.989.4449
info@placeworks.com
www.placeworks.com



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1. Applicable Standards and Goals

1.1 GENERAL

This Health and Safety Plan (HASP) was prepared by PlaceWorks for Riverside Unified School District (the District). This HASP provides an overview of current conditions at the site and describes the safety procedures to be employed and the rationale for their selection. The HASP has been prepared to ensure proper precautions are taken to protect human health and safety while work is being performed at the site. During the development of this HASP, consideration was given to current safety standards as defined by the U.S. Environmental Protection Agency (EPA), the Occupational Health and Safety Administration (OSHA), and the National Institute of Occupational Safety and Health (NIOSH). This HASP was prepared in accordance with guidelines set forth in Title 8 of the California Code of Regulations, Section 5192 (8 CCR 5192). In addition, this HASP also describes the health effects and standards for known contaminants and the procedures designed to account for the potential for exposure to unknown substances.

1.2 SCOPE AND APPLICABILITY OF THE HEALTH AND SAFETY PLAN

The purpose of this HASP is to define the requirements and designate protocols to be followed by the onsite personnel during the field activities. Site conditions, identified sources, and previous work elements implemented at the site are described in the Workplan. This HASP is applicable to all employees, government employees, contractors, subcontractors, and visitors to the site. This HASP will be used to ensure that adequate site safety practices are used during sample collection activities.

All personnel working at the site must review the HASP and sign an agreement to comply with its requirements and to signify their familiarity with all aspects of the HASP before entering an exclusion zone or a contamination reduction zone. A copy of the HASP Certification is provided in Section 19. All personnel working at the site will be briefed daily by the Site Safety Officer (SSO) and will be required to become familiar with the following sections of this plan:

- Directions to Hospital - Section 17 and Page 3 (map);
- Safety Rules and Personal Hygiene - Appendix A;
- Field Standard Operating Procedures for Use and Decontamination of Personal Protective Equipment (PPE) - Appendix B;
- Heat Stress and Heat Stress Monitoring - Appendix C.

1. Applicable Standards and Goals

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1. Introduction

Figure 1 **Hospital Route Map**

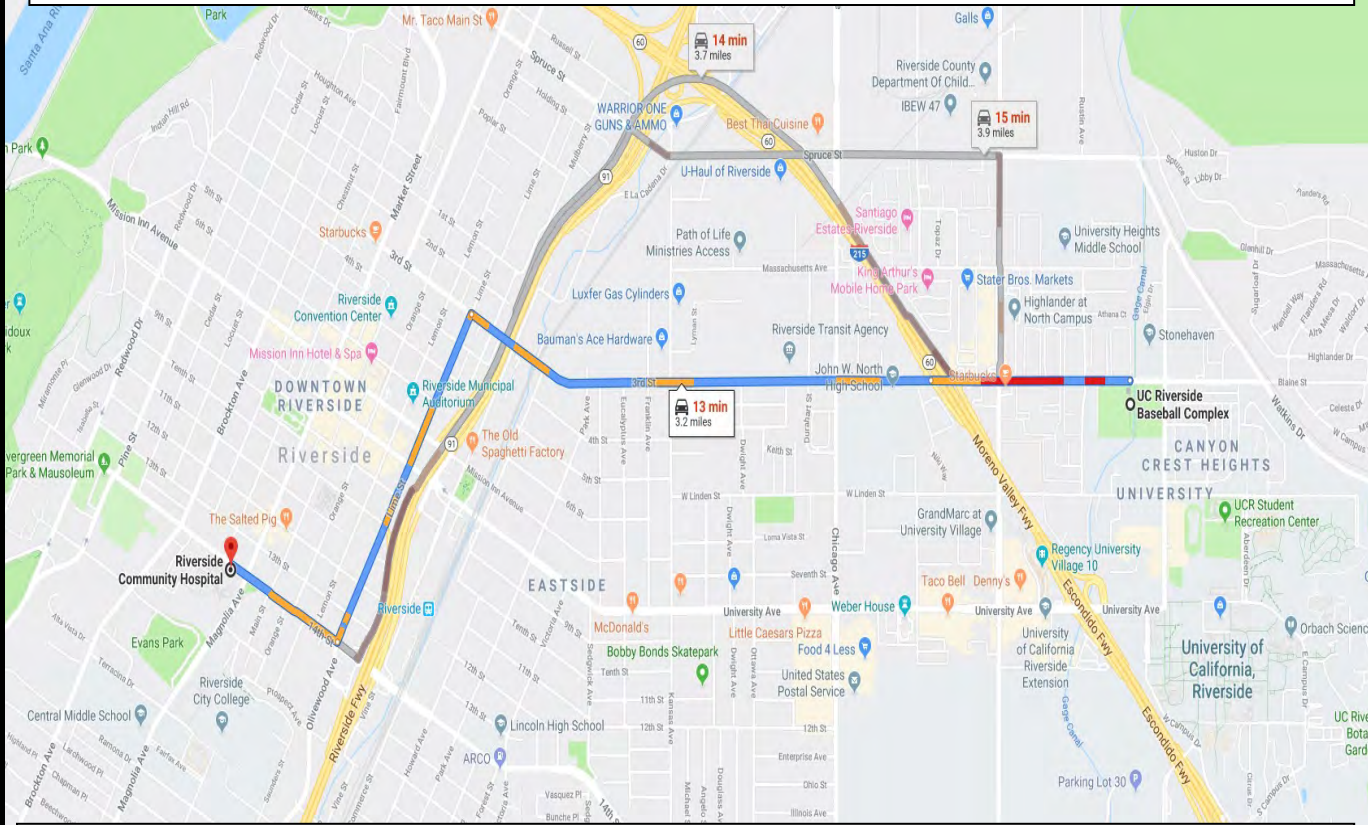
FIGURE 1 HOSPITAL ROUTE MAP

Starting from: 900 University Avenue, Riverside, Riverside County, CA

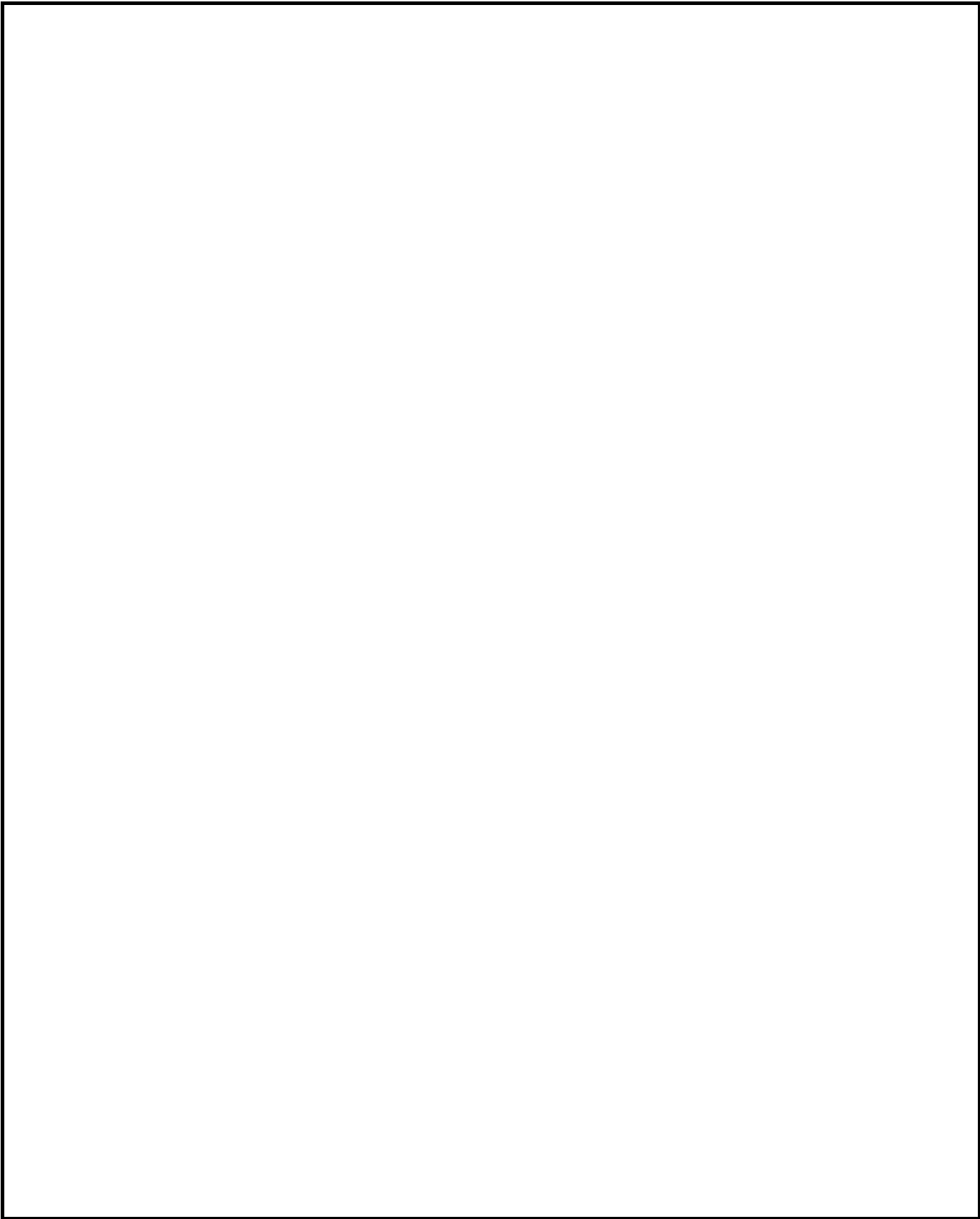
**Arriving at: Riverside Community Hospital Emergency Room
4445 Magnolia Avenue, Riverside, Riverside County, CA**

Distance: 3.2 miles

Approximate Travel Time: 13 minutes



Directions	Mile
1. Head west on Blaine Street toward Rustin Avenue	0.6
2. Continue onto 3 rd Street	1.4
3. Turn left onto Lime Street	0.8
4. Turn right onto 14 th Street	0.4
5. Destination will be on the left	



**Proposed Blaine STEM Academy
900 University Avenue
Riverside Unified School District
Health and Safety Plan - #RIV-26.0**



1. Applicable Standards and Goals

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2. Site Description

2.1 SITE IDENTIFICATION

The site has been identified by the District as the proposed Preserve Elementary School.

2.2 SITE LOCATION

The site is located at the UC Riverside Baseball Complex, Riverside, Riverside County, California.

2.3 CURRENT AND HISTORICAL LAND USES

2.3.1 Property Ownership

The University of California Riverside currently owns the project site.

2.3.2 Business/Manufacturing Activities

Based on a review of historical documents, no manufacturing activities have occurred on the site. The site is occupied by the UC Riverside Baseball Complex.

2.3.3 Site Climatological Setting

The site is classified as being in climate zone 10 by the California Energy Commission. It is an area that is semi-arid with hot, dry summers and mild winters. The Western Regional Climate Center collected data from Riverside from 1893 to 2016. The mean temperature in the area ranges from a low of 48.6° Fahrenheit (°F) in the winter to a high of 79.5°F in the summer. The average annual precipitation is 10.21 inches per year.

2. Site Description

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3. Roles and Responsibilities

A number of roles are required for the safe and efficient operation of a field team. These roles include Project Director, Project Manager, PlaceWorks Health and Safety Manager, Site Manager, SSO and field personnel. A team member may take on more than one role, but the roles must be clearly assigned and must cover all positions required. The personnel assigned to the various roles and their phone numbers are listed below:

<u>Assignment</u>	<u>Name</u>	<u>Phone Number</u>
Project Director	Dr. Denise Clendening	(909) 989-4449
Project Manager	Dr. Denise Clendening	(909) 989-4449
Health & Safety Manager	Mike Watson	(909) 989-4449
Site Manager	Mike Watson	(909) 989-4449
Site Safety Officer	Mike Watson	(909) 989-4449
Field Personnel	Mike Watson	(909) 989-4449

The following guidelines outline assignment of responsibilities of the field team members.

3.1 PROJECT DIRECTOR

The Project Director is responsible for the overall operation of the project, including safety during field activities. Specific responsibilities include organization of all project work assignments, assigning personnel to specific duties, ensuring that the field team follows health and safety procedures approved by the PlaceWorks Health and Safety Manager, and overall quality assurance/quality control of the project.

3.2 PROJECT MANAGER

The Project Manager will be responsible for the day-to-day progress of the project and will hold review and planning meetings as necessary with all technical staff, during which the current progress, problems encountered, and future direction will be discussed.

3.3 PLACEWORKS HEALTH AND SAFETY MANAGER

The PlaceWorks Health and Safety Manager is responsible for the design and, with assistance from the Project Manager on personnel issues, implementation of the health and safety program for this project. This includes developing a site HASP, ensuring that all onsite workers have met the necessary health and safety training requirements and are knowledgeable about the work they will perform, assigning a qualified SSO to the field team, verifying compliance with all applicable safety and health requirements, and updating equipment and procedures based on new information gathered during the course of work.

3. Roles and Responsibilities

3.4 SITE MANAGER

The Site Manager is responsible for the operation of the field team. Responsibilities include organization of field activities, compliance with the provisions of the site Workplan, field documentation and record keeping, quality control of field activities, and communication with the site's correspondent. The Site Manager, along with the SSO, must also ensure that subcontractors and outside observers comply with the HASP.

3.5 SITE SAFETY OFFICER

The SSO works closely with the Site Manager to enforce the provisions of the HASP during field activities. The SSO is responsible for implementing the procedures stipulated in the HASP:

- Evaluating and amending the HASP daily to remedy deficiencies and post entry briefings;
- Determining the levels of personal protection based on observations or changing field conditions;
- Controlling site entry and exit;
- Briefing the field team on the health and safety decontamination procedures required for various field activities;
- Monitoring the field team for signs of stress or exposure;
- Initiating emergency procedures, if necessary;
- Verifying that field team members have met the health and safety requirements for field activities;
- Being available to document and respond to any concerns or complaints made by personnel onsite;
- Documenting unsafe work practices or conditions;
- Documenting any accidents or incidents that result in illness or injury to personnel; and
- Issuing stop work notices if site conditions become unsafe, with conference with the Project Director and/or the PlaceWorks Health and Safety Manager.

3.6 FIELD TECHNICIANS

The field technicians are responsible for complying with the HASP, notifying the SSO of hazardous or potentially hazardous conditions, and carrying out specialized tasks during field operations. These tasks include inspecting, calibrating, maintaining, and using field equipment; performing site characterization activities; maintaining decontamination stations; preparing and decontaminating sampling equipment; collecting and preserving samples; and packaging and shipping samples according to proper chain-of-custody procedures.

3. Environmental Analysis

3.7 FIELD TEAM SIZE

The size of the field team is determined by the nature of the field activities, the characteristics of the site, the safety hazards involved, and the prescribed levels of safety protection. The field team must be large enough to ensure onsite activities are conducted safely, but not so large as to sacrifice efficiency. PlaceWorks personnel shall be present during all phases of the field activities.

3. Roles and Responsibilities

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4. Training and Medical Monitoring Requirements

Staff and subcontractors participating in the fieldwork must have completed a 40-hour health and safety training course (8 CCR 5192(e), 29 CFR 1910.120(e)(2)) as appropriate for their particular tasks and have annual refresher training. Before personnel arrive onsite, each employer will be responsible for certifying that its employees meet the OSHA training requirements.

Each employee will be familiar with the requirements of the site safety and health plan, and will participate in site activity and safety briefings. Medical surveillance is conducted as a routine program, which meets the requirements of 8 CCR 5192 (f); the medical surveillance program is detailed in Appendix D. There will not be any special medical tests or examinations required for staff involved in this project.

All personnel will be trained to operate their respective equipment, including respiratory protection if site conditions exist where respirators are needed. Under no circumstance will untrained or unqualified personnel operate equipment.

4. Training and Medical Monitoring Requirements

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5. Description of Field Work

The following subsections describe tasks to be performed during the field activities and the hazards associated with each task. Some of the protective measures to be implemented during completion of those operations are also identified.

5.1 SOIL SAMPLING ACTIVITIES

5.1.1 Soil Sampling

Soil samples will be collected following protocols described in the Workplan and the following guidance: DTSC's *Interim Guidance for Sampling Agricultural Properties (Third Revision)* (DTSC 2008). Soil will be collected in glass jars.

5.1.2 Sampling Methods and Procedures

Soil sampling will be conducted using a hand auger. The hand auger will be advanced to the desired depths and the barrel will be retrieved. Observations pertaining to the soil type will be recorded by a field geologist. The soil will be decanted into a pre-cleaned glass jar. Each sample will be labeled with the sample number, sample depth, and the date and time sampled. Samples will be immediately placed in an ice-filled cooler and listed on a chain-of-custody form. Any observation pertaining to potential soil contamination or soil source will be recorded.

Hazards associated with this task include dermal contact with and accidental ingestion of contaminated soil and inhalation of dusts and vapors (i.e. VOCs), noise and lifting. Some of the protective measures to be implemented during soil sampling include the use of chemical-resistant gloves to reduce the hazards associated with soil sampling. Level D PPE will be used when sampling is initiated, but will be upgraded as necessary. The use of a PID for air monitoring will be used (as necessary) primarily for the detection of VOCs and not organochlorine pesticides or metals, which are not detectable with a PID.

Previous surveys indicate that heavy equipment such as drilling or excavation equipment may produce continuous and impact noise at or above the action level of 85 dBA. All site personnel within 25 feet of operating equipment, or near an operation that creates noise levels high enough to impair conversation, shall wear hearing protective devices (either muffs or plugs). All PlaceWorks personnel are in the PlaceWorks Hearing Conservation Program and have had baseline and, where appropriate, annual audiograms. Personnel will wash their hands with soap and water prior to inserting earplugs to avoid initiating ear infections.

The following guidelines will be followed whenever lifting equipment such as portable generators, coolers filled with samples, any other objects that are of odd size or shape, or that weigh over 40 pounds.

- Get help when lifting heavy loads. Portable generators will only be lifted using a two-person lift.

5. Description of Field Work

- When moving heavy objects such as drums or containers, use a dolly or other means of assistance.
- Plan the lift. If lifting a heavy object, plan the route and where to place the object. In addition, plan communication signals to be used (i.e., “1, 2, 3, lift,” etc.).
- Wear sturdy shoes in good condition that supply traction when performing lifts.
- Keep your back straight and head aligned during the lift and use your legs to lift the load – do not twist or bend from the waist. Keep the load in front of you – do not lift or carry objects from the side.
- Keeping the heavy part of the load close to your body will help maintain your balance.

6. Chemical Hazards

The presence of chemical hazards at the site has not been confirmed; however, the primary suspected potential constituents of concern associated with the site are metals and organochlorine pesticides. The list of chemicals of concern for the site will be reassessed, as more data becomes available. Brief toxicological profiles of the major constituents of concern are included in Appendix E. Chemical and physical characteristics of these compounds are presented in Table 1.

Potential exposures to these chemicals during field activities include the following:

- Dermal contact with and accidental ingestion of potentially contaminated rinsate and residue during decontamination and sampling; and
- Splash hazards during decontamination.

To protect workers from eye and skin contact, skin absorption, and accidental ingestion of airborne dust, PPE will be used as outlined in Section 8.0.

6.1 HAZARD ASSESSMENT

A literature review was conducted to find ionization potentials (IPs), exposure limits, and concentrations immediately dangerous to life and health (IDLH) for the constituents of concern in environmental media at the site. Exposure limit data are expressed as 8-hour time-weighted averages (TWAs). TWAs promulgated in OSHA regulations are referred to as permissible exposure limits (PELs). The American Conference of Governmental and Industrial Hygienists adopts values for exposure limits that are referred to as threshold limit values.

Exposure limits and the IDLH for the constituents of concern are depicted in Table 1. These data are also used to establish action levels to determine when personnel should upgrade from Level D PPE (i.e., no respiratory protection) to Level C PPE (i.e., full-face air-purifying respirator) and to select the appropriate types of outer garments, gloves, and respirator cartridges. Action levels triggering an upgrade in respiratory protection from Level D to Level C are established by examining exposure limit data and selecting compounds with the lowest PEL.

Site work will be initiated in Level D protection. If unusual odors or symptoms are noted in the field, and engineering controls cannot reduce potential hazards in the breathing zone, the level of protection will be upgraded to Level C. If an upgrade to Level B is required, field activities will stop and the site will be evacuated. If Level B is required, the project will be stopped and the current operating procedures will be assessed by the SSO, the Health and Safety Officer, and the Health and Safety Committee. If it is determined that Level B PPE is required, a subcontractor will be retained to conduct this supervised work.

6. Chemical Hazards

The potential for injuries inherent in operating heavy equipment presents additional hazards, especially because the operator may be wearing restrictive clothing. The use of heavy equipment creates the potential for contact with active utility lines. These utility lines will be located before intrusive activities are conducted and avoided.

7. Physical Hazards

Potential physical hazards associated with this project include, but are not limited to, working around heavy equipment, electrocution, slippery terrain, noise, weather conditions, and heat stress.

7.1 HEAVY EQUIPMENT

It is important that personnel be aware of all operations that are occurring at a work location as well as physical hazards, such as excavations, trenches, or open pits. Personnel will be aware of the position and movement of equipment by identified operational areas. Special precautions, with regard to layout of equipment traffic patterns associated with other vehicles and buildings, will be carefully considered before beginning field activities. Traffic barriers and/or caution barrier tape will be used to delineate the layout and assist in directing traffic flow to reduce risk of vehicle injury. Employees will be notified during daily meetings as to the established traffic patterns of heavy equipment. Whenever heavy equipment operations are conducted in a congested site area, a traffic coordinator designated by the SSO will direct movement of heavy equipment and pedestrians. For non-essential persons, pedestrian traffic will be prohibited where heavy excavation equipment is in operation. Operators will be tasked to watch for employees that might stray into the restricted entry area; site personnel will be required to wear orange safety vests in the vicinity of heavy equipment operation.

7.2 ELECTROCUTION

Electrical power lines above (overhead) and below ground will be identified at the site before to the start of any activities to prevent electrocution. Minimum safe distance will be established by the SSO in areas of overhead and underground power lines. Subcontracted utility locating services will be used as necessary to locate or confirm the presence of suspected underground utilities at drilling or boring locations.

7.3 SLIPPERY TERRAIN, SLIPS, TRIPS, AND FALLS

Slippery and uneven terrain is common and may increase the risk of injuries. Personnel shall wear the appropriate foot protection while onsite. The SSO will monitor site work surfaces for potential trip and fall hazards. Overhead hazards consist of potential contact with falling objects, rigging equipment, or other items in use at the site. Hard hats are required at all times when at the site.

7.4 NOISE

Noise levels around the equipment may exceed a comfortable range; therefore earplugs or equivalent hearing protection devices are required when equipment is operating.

7. Physical Hazards

7.5 HEAT STRESS

The potential for heat stress is high given the warm southern California climate and use of protective garments. Heat stress and heat stress monitoring are discussed in Appendix C.

8. Personal Protective Equipment (PPE)

It is anticipated that Level D PPE will be used, with Level C PPE available on stand-by. Level D PPE will consist of the following equipment:

- Long pants and long-sleeved or short-sleeved shirts;
- Steel-toed work boots;
- Nitrile gloves;
- Hard hats, required when heavy equipment is being used and an overhead hazard exists;
- Safety glasses; and
- Hearing protection during heavy equipment operation.

Damaged PPE will be replaced immediately. Backup equipment will be kept onsite for replacement as necessary.

At a minimum, the following PPE will be discarded and replaced daily:

- Nitrile gloves; and
- Disposable type ear plugs.

New gloves will be used to collect each sample. Procedures for using PPE are given in Appendix B.

The level of protection provided by PPE selection may be upgraded or downgraded by the SSO, in conference with the PlaceWorks Health and Safety Manager and/or the Project Director, based on changes in site conditions. When a significant change occurs, the hazards will be reassessed. Some indicators of the need for reassessment are as follows:

- A change in weather conditions;
- Encountering contaminants other than those previously identified;
- A change in ambient levels of contaminants; and
- A change in work scope that affects the degree of contact with contaminants.

Level C PPE will consist of the following equipment:

8. Personal Protective Equipment (PPE)

- Dual-canister full-face air-purifying respirator (NIOSH approved);
- Organic vapor/P100 combination cartridges;
- Tyvek or Saranex-coated coveralls;
- Steel-toed work boots;
- Double layer nitrile;
- Hard hats, required when heavy equipment is being used; and
- Safety glasses.

Particulate respirator cartridges should be changed out when the wearer has difficulty breathing through the cartridges. Chemical gas or vapor respirator cartridges will be changed out at least daily.

- Proper inspection of PPE includes several levels of inspection depending on specific articles of PPE and its frequency of use. The different levels of inspection are as follows:
- Inspection of equipment received from the factory or distributor;
- Inspection of equipment as it is issued to workers;
- Inspection after use or training;
- Periodic inspection of stored equipment; and
- Periodic inspection when a question arises concerning the appropriateness of the selected equipment or when problems with similar equipment arise.

The primary inspection of PPE in use for activities at the site will occur before use and will be conducted by the user. This ensures that the device or article has been inspected by the user and the user is familiar with its use. The SSO will periodically review field technicians' knowledge and execution of inspection guidelines for the various types of PPE in use at the site.

9. Illumination

Nighttime work activities are not anticipated; however, if nighttime work becomes necessary, illumination at the site will be supplemented in order to ensure safe working conditions. Supplemental lighting will be provided by mobile generator powered units.

9. Illumination

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10. Standard Operating Procedures

The standards regarding Safety Rules and Personal Hygiene and Use and Decontamination of PPE are detailed in Appendices A and B, respectively.

Standard operating procedures (SOPs) for equipment will be presented in the Addendum.

10.1 DAILY SAFETY MEETINGS

The SSO will conduct a daily safety meeting to discuss any changes in safety status, safety violations and administrative actions, work assignments, or modifications of procedures with all onsite field personnel. This safety meeting will be scheduled as the first activity of each day. An alternate person may be designated to conduct the briefing at the discretion of the SSO. All personnel present will sign the Daily Attendance sheet.

10.2 DAILY DEBRIEFING MEETINGS

At the end of each workday at the site, the SSO will discuss with the Site Manager or the Project Director, daily progress, technical problems, administrative resolution of disciplinary actions, and monitoring and analytical findings.

In the event that an emergency occurs or other accident that requires immediate attention, and additional safety meeting may be conducted. Non-routine meetings will address any site changes that have safety implications, which must be immediately addressed before work can continue.

10.3 ADMINISTRATIVE ACTION

Observed violations of safety procedures can result in immediate removal of the violator from the site. The Project Director will take administrative action on each violation. In the event of a violation, the nature of the violation, the past record of the violator, and any extenuating circumstances will be reviewed. The SSO and Health and Safety Officer will provide a recommendation to the Project Director regarding administrative actions such as retraining and reassignment, change in clearance status, or permanent dismissal from the site.

10. Standard Operating Procedures

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11. Confined Spaces

No confined space entry is anticipated at the site. A confined space protocol will be developed for Agency review and approval should conditions at the site change.

11. Confined Spaces

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12. Noise Monitoring

Noise may be monitored using a sound level meter (General Radio model 1565B) in areas where heavy equipment is being utilized. Hearing protection devices (HPDs) will be available onsite at all times. Use of HPDs will be required whenever the noise level equals or exceeds 85 dBA; in general, they will be used whenever equipment is operated. Field technicians will be informed on the proper use, maintenance and storage of HPDs. Engineering controls will be utilized as necessary to ensure that noise levels generated by work do not impact residences adjacent to the site.

12. Noise Monitoring

This page intentionally left blank.

13. Description of Site Work Zones

The various work zones may be established at the site before commencing any field activities.

Exclusion Zone

All workers who enter the contaminated work area will wear the correct level of protection. The number of workers in this zone will be kept at a minimum.

Contamination Reduction Zone (CRZ)

Decontamination areas for field personnel and heavy equipment will be designated in the CRZ adjacent to the exclusion zone.

Support Zones

The administrative and break areas shall be located in the support zone outside the CRZ and the overall work zone. The support zone will be located upwind from the overall work zone as permitted by site meteorological conditions.

The work areas and site shall be cleared and secured at the end of each workday.

13. Description of Site Work Zones

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14. Decontamination

Decontamination of PPE will take place in the decontamination area identified onsite. Before starting field activities, a decontamination station will be set with one bucket or tub containing a clean water and soap mixture and another bucket or tub containing clean water. All workers and PPE will be decontaminated to prevent the spread of potentially hazardous substances. All workers will wash their hands, arms, and face after removing PPE and before leaving the site. The volume and concentration of the decontamination fluid will be sufficiently low to allow disposal at the site. The water (and water with detergent) will be poured onto the ground or into a storm drain. Disposable items will be placed in trash bags for disposal along with other wastes removed from the property. Support vehicles are to be left, to the extent practical, outside the exclusion area so that decontamination will not be necessary. Decontamination procedures are outlined in Appendix B.

14. Decontamination

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15. Emergency Supplies

15.1 FIRE EXTINGUISHERS

A fire extinguisher will be available onsite during field activities. Field technicians will be informed on the proper use of fire extinguishers.

15.2 SPILL CONTROL EQUIPMENT

Accidental spills will be contained with sandbags or commercially available absorbent materials especially designed for spill containment or cleanup.

15. Emergency Supplies

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16. Emergency Contact Information

Emergency response shall be addressed according to the requirements of T8 CCR 5192. If it is determined that the emergency could threaten human health or the environment, the incident will be reported to the proper agencies:

Police/Fire 911

Department of Toxic Substances Control (714) 484-5300

5796 Corporate Avenue

Cypress, California 90630

Fax: (714) 484-5302

Department of Health Services (916) 445-4171

714/744 P Street

Sacramento, California 95814

The closest hospital is: (951) 788-3000

Riverside Community Hospital

4445 Magnolia Avenue

Riverside, California 92501

16. Emergency Contact Information

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17. Directions to the Hospital

Directions (See Figure 1): Head west on Blaine Street toward Rustin Avenue. Continue onto 3rd Street and then turn left onto Lime Street. Turn right onto 14th Street and the hospital will be on the left. Distance is 3.2 miles and estimated travel time is 13 minutes.

17. Directions to the Hospital

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18. Authorized Changes to the Health and Safety Plan

Changes to the HASP are to be documented by completing a Modification of Site Health and Safety Plan form. This completed form must be signed by the Site Safety Officer, the Health and Safety Manager, and the Project Director. A copy of each completed form is to be included with each copy of the HASP and made a part of the project files.

18. Authorized Changes to the Health and Safety Plan

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19. Certification

This HASP has been reviewed and approved by the PlaceWorks Health and Safety Manager. The plan satisfies the requirements of the Occupational Safety and Health Act 1910.120 as implemented by the Health and Safety Committee for hazardous waste site activities.

All PlaceWorks site personnel have read the HASP and are familiar with its provisions.

NAME	SIGNATURE	DATE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
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_____	_____	_____

19. Certification

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Appendices

Appendix A

Safety Rules and Personal Hygiene

1. Remove all facial hair that interferes with a satisfactory fit of respiratory protective equipment.
2. Do not wear contact lenses while wearing full-face respirators.
3. Do not take prescribed drugs unless specifically approved by a physician. Notify the SSO that prescription medication is being taken.
4. In the work zone, do not eat, drink, smoke, chew gum or tobacco, or engage in any other practice that increases the probability of hand-to-mouth transfer or ingestion of material.
5. Wash hands and face thoroughly after leaving the work area and before eating, drinking, or any other activities.
6. Thoroughly wash entire body as soon as possible after removing Level C protective garments.
7. Whenever possible, avoid contact with contaminated or suspected contaminated surfaces.

Appendix B

Field Standard Operating Procedures for Use and Decontamination of Personal Protective Equipment

1. Park vehicles outside the site boundaries.
2. During the pre-work safety meeting, the SSO will provide the following information:
 - A. a description of the site and known problem areas
 - B. the level of protection required
 - C. emergency medical information
 - D. the locations of the first aid kit and fire extinguisher
3. Use the nearest lavatory.
4. Lay out and check safety gear.
5. Check and don Level D PPE.
6. For work in Level C PPE, put on safety gear in the following order:
 - A. Coveralls
 - B. Steel-toed work boots
 - C. Connect suit and boots with tape
 - D. Outer booties, if used
 - E. Air purifying respirators (APRs), if required
7. For work in Level C PPE, put on APRs as follows:
 - A. Inspect.
 - (1) Inspect before each use to ensure that they have been cleaned adequately.
 - (2) Check material conditions for signs of pliability, deterioration, or distortion.
 - (3) Examine cartridges and ensure that they are the correct type for the intended use, that the expiration date has not passed, and that they have not been opened or used previously.
 - (4) Check face shields for cracks or fogginess.
 - B. Loosen all harness strap adjustments.
 - C. Place chin in chin cup and draw back evenly on strap adjustments - the two bottom straps first, then the two top straps, and the center top strap last.
 - D. Check that the respirator is centered evenly on the face and that the straps are not uncomfortably tight.

- E. Check for leaks or proper facial seals.
 - (1) To conduct a negative-pressure test, close the inlet part with the palm of the hand so it does not pass air, and gently inhale for about 10 seconds. Any inward rush of air indicates a poor fit. Note that a leaking facepiece may be drawn tightly to the face to form a good seal, giving a false indication of adequate fit.
 - (2) To conduct a positive-pressure test, gently exhale while covering the exhalation valve to ensure that a positive pressure can be built up. Failure to build a positive pressure indicates a poor fit.

- 8. Put on the rest of the gear in the following order:
 - A. Raise hood
 - B. Hard hat, if necessary
 - C. Surgical gloves
 - D. Outer gloves
 - E. Connect gloves and suit with tape

- 9. Select a buddy to act as a safety backup.

- 10. Check your buddy's equipment and have your buddy check yours for rips, tears, or malfunctions. Pay special attention to respirators, making sure that seals are good and that cartridges are securely in place.

- 11. If any equipment or gear gets damaged or if your suit tears badly, GO BACK.

- 12. If you experience physical discomfort, breathing difficulties, light-headedness, dizziness, or other abnormalities, GO BACK.

- 13. When you return, have your buddy check for external accumulation of contamination and remove it. Also check gear for damage.

- 14. Decontamination will be performed in steps as follows (as appropriate for the PPE being utilized):

Step 1 - Segregated Equipment Drop: Deposit equipment used onsite (tools, sampling devices and containers, monitoring instruments, clipboards, etc.) in different containers with plastic liners. Each may be contaminated to a different degree. Segregation at the drop reduces the probability of cross-contamination. This equipment may be reused if properly decontaminated.

Equipment: various sizes of containers
 plastic drop cloths

Step 2 - Boot Cover and Outer Glove Wash and Rinse: (Optional - will be used at the Site Safety Officer's discretion.)

Equipment: spray bottle/container with nozzle
 two wash basins or tubs
 scrub brush
 water
 Liqui-nox nonphosphate soap solution (1%)

Step 3 - Tape Removal: Remove tape around boots and gloves, and deposit in container with plastic liner. Remove boot covers, then outer gloves, and place them in the container.

Equipment: container (30-50 gallons)
 plastic liners
 folding chairs

Step 4 - Safety Boot Wash and Rinse: (Optional - will be used at discretion of field team members.)

Equipment: two wash basins or tubs
 scrub brush
 water
 Liqui-nox solution (1%)

Step 5 - Protective Coverall Removal: With the assistance of a helper, remove protective coverall. Deposit in container with plastic liner.

Equipment: container (30-50 gallons)
 folding chairs
 plastic liners

Step 6 - Respirator Removal: Remove facepiece. Avoid touching face with gloves. If work is completed for the day, discard cartridges in lined container, and wash and rinse respirator.

Equipment: container (30-50 gallons)
 plastic liners

Step 7 - Inner Glove Removal: Remove inner gloves and deposit in container with plastic liner.

Equipment: container (20-30 gallons)
 plastic liners

15. Respirators will be cleaned daily by hand washing with MSA cleaner-sanitizer solution followed by a thorough rinse and air drying. NEVER ALLOW A RESPIRATOR TO DRY WITH THE STRAPS PLACED FORWARD ACROSS THE FACESHIELD BECAUSE THIS MAY CAUSE CHANGES IN THE FACE-TO-RESPIRATOR SEAL SURFACE. The specific procedures to be employed are as follows:

A. Remove all cartridges (canisters) and filters plus gaskets and seals not

permanently affixed to their seats.

- B. Loosen harness adjustment straps.
 - C. Remove exhalation valve cover.
 - D. Remove inhalation and exhalation valves.
 - E. Remove protective faceshield cover.
 - F. Wash facepiece in MSA cleaner/sanitizer powder mixed with warm water, preferably at a temperature of 120° F. Wash components separately from facepiece. Heavy soil may be removed from the facepiece surface using a medium-soft handbrush.
 - G. Remove all parts from the wash solution, and rinse twice in clean, warm water.
 - H. Air dry all parts in a designated clean area.
 - I. Pat facepieces, valves, and seats to remove any remaining soap residue, water, or other foreign material with a clean, damp, lint-free cloth.
 - J. Reassemble respirator.
 - K. Place respirator in a plastic bag and the respirator box or otherwise store the respirator to prevent exposure to dust, moisture, sunlight, damaging chemicals, extreme temperatures, and impact.
16. Investigation-derived waste material will be handled as follows:
- A. Used PPE and disposable equipment will be double bagged and placed in a municipal refuse dumpster on site. These wastes are not considered hazardous and can be sent to a municipal landfill. Any PPE and disposable equipment that is to be disposed of which can still be reused will be rendered inoperable before disposal in the refuse dumpster.
 - B. Wash and rinse waters from personal and equipment decontamination will be poured onto the ground or into a storm drain.
 - C. Soil cuttings generated during the subsurface sampling will be placed back into the soil borings from which the samples were obtained. Any remaining soil cuttings will be spread around the sampling location.

Appendix C

Heat Stress and Heat Stress Monitoring

Heat is one of the most common (and potentially serious) illnesses at hazardous waste sites where PPE is worn; therefore, regular monitoring and other preventive precautions are vital. Shelter from the sun will be provided during rest periods. Below is a list of the signs and symptoms of heat stress. Initial work schedules will be approximately 90 minutes of work followed by 15 minutes of rest. Work intervals will be adjusted to shorter periods based on the assessment of the SSO. Monitoring for heat stress will be conducted by visual observation by the individual team members.

Signs and Symptoms of Heat Stress

- **Heat rash** may result from continuous exposure to heat or humid air.
- **Heat cramps** are caused by heavy sweating with inadequate electrolyte replacement. Signs and symptoms include:
 - muscle spasms
 - pain in the hands, feet, and abdomen
- **Heat exhaustion** occurs from increased stress on various body organs, including inadequate blood circulation caused by cardiovascular insufficiency or dehydration. Signs and symptoms include:
 - pale, cool, moist skin
 - heavy sweating
 - dizziness
 - nausea
 - fainting
- **Heat stroke** is the most serious form of heat stress. Temperature regulation fails, and the body temperature rises to critical levels. Immediate action must be taken to cool the body before serious injury and death occur. Competent medical help must be obtained. Signs and symptoms include:
 - red, hot, usually dry skin
 - lack of or reduced perspiration
 - nausea
 - dizziness and confusion
 - strong, rapid pulse
 - coma

First-aid remedies for heat stress and heat stroke includes removing the worker to a cool place, providing cool water or a commercial sport drink, loosen tight clothing, and call for an ambulance if victim vomits or starts to lose consciousness.

Appendix D

Medical Monitoring Program

The workers most likely to be exposed to contaminated materials at the site are sampling and inspection personnel. These personnel are included in this Medical Monitoring Program.

The purposes of the Medical Monitoring Program are to identify any illness or problem that would put an employee at an unusual risk from exposures; to ensure that each employee can use negative-pressure respirators safely and withstand heat or cold stress; and to establish and maintain a medical data base for employees to monitor any abnormalities that may be related to work exposure and that could increase injury risk for the employee or others in the performance of job functions. The Medical Monitoring Program includes:

- A baseline physical examination;
- A medical determination of fitness of duty, including work restrictions after any job-related injury or illness or non job-related absence lasting more than three working days;
- The review of each site-specific Health and Safety Plan and potential exposure list to determine the need for specific biological and medical monitoring; and
- Annual and exit physical examinations with attention given to specific exposures or symptoms.

Baseline Physical Examination

A Baseline Physical Examination will be performed on each employee engaged in hazardous waste activities. The purposes of this examination are to identify any illness or problem that would put an employee at unusual risk from certain exposures; to certify the safe use of negative-pressure respirators (OSHA Safety and Health Standard 29 CFR 1910.134); and to develop a database for the assessment of exposure-related events detected through periodic medical monitoring. Variable data, such as age, sex, race, smoking, prior employment, and exposure history, that may have a bearing on the occurrence of subsequent events after employment begins will be gathered.

The content of the Baseline Physical Examination will include:

- Medical, occupational, and fertility histories;
- A physical examination, stressing neurological, cardiopulmonary, musculoskeletal, and skin systems;
- An electrocardiogram;
- PA and lateral chest x-rays;
- A pulmonary function test (FEV₁, FVC, FEV₂₅₋₇₅);

- An audiogram;
- A multi-chemistry blood panel, including kidney and liver function tests, CBC with differential, and urinalysis;
- Tests deemed necessary by symptoms or exposure history;
- A red blood cell cholinesterase; and
- Physical parameters, including blood pressure and visual acuity testing.

Annual Physical Examination

An examination and updated occupational history will be performed on an annual basis during the anniversary month of the baseline physical examination. The Annual Physical Examination serves to identify and prevent illness caused by cumulative exposure to toxic substances.

The Annual Physical Examination will include:

- A personal work history (based on specific project histories);
- A physical examination, stressing neurological, cardiopulmonary, musculoskeletal, and skin systems;
- Pulmonary function test (FEV1, FVC, FEV 25-75);
- A multi-chemistry blood panel, including kidney and liver function test;
- An audiogram;
- Tests deemed necessary by symptoms or exposure history; and
- An optional wellness profile.

Return to Work Examination

Any job-related illness or injury will be followed by a medical examination to determine fitness for duty or possible job restrictions based on the physical findings of the medical examiner. A similar examination will be performed following three missed workdays caused by a non job-related illness or injury requiring medical intervention.

Exit Physical Examination

The content of the Exit Physical Examination will include:

- a personal work history (based on specific project histories);
- medical, exposure, and fertility histories;
- a physical examination, stressing neurological, cardiopulmonary, musculoskeletal, and skin systems;
- a pulmonary function test (FEV1, FVC, FEV 25-75);
- an electrocardiogram;
- PA and lateral chest x-rays;
- an audiogram;
- a multi-chemistry blood panel, including kidney and liver function tests, CBC with differential, and urinalysis;
- tests deemed necessary by symptoms or exposure history;
- a red blood cell cholinesterase; and
- physical parameters, including blood pressure and visual acuity testing.

Appendix E

Properties of Materials and Toxicological Profiles

Chromium (Cr III and Cr VI)

The permissible exposure limit (PEL) for chrome is 0.5 mg/m^3 , which is also the recommended exposure limit (REL) established by the National Institute for Occupational Safety and Health (NIOSH). The Immediately Dangerous to Life or Health (IDLH) concentration for this substance is 25 mg/m^3 .

The appearance and odor of this substance varies depending on the type of chrome compound. Symptoms of exposure to chrome may include irritation of the skin and eyes. If splashed in the eyes, irrigate immediately. For dermal exposure, wash with soap and water immediately. If swallowed, immediately seek medical attention. If victim stops breathing after exposure to vapors, begin artificial respiration.

Arsenic

The PEL for arsenic is 0.010 mg/m^3 . NIOSH has established an REL, based on a 15-minute exposure period, of 2 mg/m^3 . The IDLH concentration for this substance is 5 mg/m^3 .

The appearance and odor of arsenic varies depending upon the specific organic arsenic compound. Routes of exposure include inhalation, ingestion, and contact. The skin, respiratory system, kidneys, central nervous system (CNS), liver, GI tract, and reproductive system are all target organs or chronic exposure.

Lead

The PEL for lead is 0.050 mg/m^3 . NIOSH has established an REL of 0.100 mg/m^3 . The IDLH concentration for this substance is 100 mg/m^3 .

A heavy, ductile, soft, gray solid, lead is also known as lead metal and plumbum. A person can be exposed to lead contamination by inhalation, ingestion, or contact. The target organs for lead include eyes, GI tract, CNS, blood, and gingival tissue.

Symptoms of lead exposure include weakness, lassitude, insomnia; facial pallor; pal eye, anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; ankle or wrist paralysis, encephalopathy; kidney disease; irritated eyes; and hypotension. If eye contact occurs, the eyes should be washed immediately with large amounts of water. For dermal contact, remove any penetrated clothing and immediately flush the contaminated skin with soap and water. If this chemical is inhaled in large quantities, move to fresh air at once. Perform mouth-to-mouth resuscitation if breathing has stopped. Keep the person warm and resting. For any of the above or if the chemical has been swallowed, seek medical attention promptly.

Dichlorodiphenyltrichloroethane (DDT)

The PEL for DDT is 1 mg/m³. NIOSH has established an REL of 0.5 mg/m³. The IDLH concentration for this substance is 500 mg/m³.

Routes of exposure include inhalation, ingestion, absorption, and contact. Symptoms of exposure to DDT include irritation to eyes and skin, paresthesia of the tongue, lips, and face, tremor, apprehension, dizziness, confusion, malaise, headache, fatigue, convulsions, and vomiting. If eye contact occurs, the eyes should be washed immediately with large amounts of water. For dermal contact, remove any penetrated clothing and immediately flush the contaminated skin with soap and water. If this chemical is inhaled in large quantities, move to fresh air at once. Perform mouth-to-mouth resuscitation if breathing has stopped. Keep the person warm and resting. For any of the above or if the chemical has been swallowed, seek medical attention promptly.

Aldrin

The PEL for aldrin is 0.25 mg/m³. NIOSH has established an REL of 0.25 mg/m³. The IDLH concentration for this substance is 25 mg/m³.

Routes of exposure include inhalation, ingestion, absorption, and contact. Symptoms of exposure to aldrin include headache, dizziness, nausea, vomiting, malaise, and coma. If eye contact occurs, the eyes should be washed immediately with large amounts of water. For dermal contact, remove any penetrated clothing and immediately flush the contaminated skin with soap and water. If this chemical is inhaled in large quantities, move to fresh air at once. Perform mouth-to-mouth resuscitation if breathing has stopped. Keep the person warm and resting. For any of the above or if the chemical has been swallowed, seek medical attention promptly.

Toxaphene

The PEL for toxaphene is 0.5 mg/m³. The IDLH concentration for this substance is 200 mg/m³.

Routes of exposure include inhalation, ingestion, absorption, and contact. Symptoms of exposure to toxaphene include nausea, confusion, agitation, tremor, convulsions, dry, red skin, and unconsciousness. If eye contact occurs, the eyes should be washed immediately with large amounts of water. For dermal contact, remove any penetrated clothing and immediately flush the contaminated skin with soap and water. If this chemical is inhaled in large quantities, move to fresh air at once. Perform mouth-to-mouth resuscitation if breathing has stopped. Keep the person warm and resting. For any of the above or if the chemical has been swallowed, seek medical attention promptly.

Dieldrin

The PEL for dieldrin is 0.25 mg/m³. NIOSH has established an REL of 0.25 mg/m³. The IDLH concentration for this substance is 50 mg/m³.

Routes of exposure include inhalation, ingestion, absorption, and contact. Symptoms of exposure to dieldrin include headache, dizziness, nausea, vomiting, sweat, and coma. If eye contact occurs, the eyes should be washed immediately with large amounts of water. For dermal contact, remove any penetrated clothing and immediately flush the contaminated skin with soap and water. If this chemical is inhaled in large quantities, move to fresh air at once. Perform mouth-to-mouth resuscitation if breathing has stopped. Keep the person warm and resting. For any of the above or if the chemical has been swallowed, seek medical attention promptly.

Appendix F

Site Safety Officer Responsibilities

An SSO will be designated. The responsibilities of the SSO will include the following:

- briefing personnel on the hazards at the site, the standard operating procedures to be employed, and emergency procedures;
- conducting onsite health monitoring;
- coordinating access control and site security, including responsibility for protection of third parties, such as visitors or the surrounding community;
- monitoring work practices and decontamination to ensure that required procedures are being followed;
- being available to document and respond to any concerns or complaints made by onsite personnel;
- documenting unsafe work practices or conditions;
- documenting any accidents or incidents that result in illness or injury to personnel; and
- evaluating and amending the HASP daily to remedy deficiencies and post entry briefings.

Appendix G

Authorized Changes to HASP

Insert the following changes and replace affected pages

Site Safety Officer

Date

Project Director

Date

References

U.S. Department of Health and Human Services, 1997. NIOSH Pocket Guide to Chemical Hazards. Washington, DC.

Appendix

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TABLE 1
OCCUPATIONAL HEALTH GUIDELINES AND TOXICOLOGICAL INFORMATION
Proposed Blaine STEM Academy
 900 University Avenue
 Riverside, California

Contaminant	OSHA PEL (ppm)	STEL (ppm)	NIOSH REL (ppm)	IDLH (ppm)	Ionization Potential (eV)	Routes of Exposure	Known or Suspected Carcinogen	Symptoms	1997 NIOSH Page Reference
Arsenic	0.010 mg/m ³	n/a	2 mg/m ³ (15-minute period)	5 mg/m ³	n/a	Inh, Ing, Absorption, Contact	Yes	Ulceration of nasal septum, dermatitis, GI disturbances, peripheral neuropathy, respiratory irritation, hyperpigmentation of skin	20
Dichlorodiphenyltrichloroethane (DDT)	1 mg/m ³ (skin)	n/a	0.5 mg/m ³	500 mg/m ³	n/a	Inh, Ing, Absorption, Contact	Yes	Irritation to eyes and skin, paresthesia of the tongue, lips, and face, tremor, apprehension, dizziness, confusion, malaise, headache, fatigue, convulsions, paresis of hands, vomiting, potential occupational carcinogen	88
Aldrin	0.25 mg/m ³ (skin)	n/a	0.25 mg/m ³ (skin)	25 mg/m ³	n/a	Inh, Ing, Absorption, Contact	Yes	Headache, dizziness, nausea, vomiting, malaise, myoclonic jerks of limbs, clonic, tonic convulsions, coma, hematuria, azotemia, potential occupational carcinogen	8
Toxaphene	0.5 mg/m ³ (skin)	n/a	n/a	200 mg/m ³	n/a	Inh, Ing, Absorption, Contact	Yes	Nausea, confusion, agitation, tremor, convulsions, unconsciousness; dry, red skin; potential occupational carcinogen	58
Dieldrin	0.25 mg/m ³ (skin)	n/a	0.25 mg/m ³ (skin)	50 mg/m ³	n/a	Inh, Ing, Absorption, Contact	Yes	Headache, dizziness, nausea, vomiting, malaise, sweat, myoclonic limb jerks, clonic, tonic convulsions; coma, potential occupational carcinogen, in animals: liver, kidney damage	104

ppm - parts per million
 mg/m³ - milligrams per cubic meter
 n/a - not applicable

Appendix

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Appendix E. Laboratory Reports

Appendix

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A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761

951-779-0310

www.arlaboratories.com

FAX 951-779-0344

office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng

Ken Zheng, President
10/31/2019 12:43:17

Laboratory Job No. (Certificate of Analysis No.)

1910-00151

Project Name / No.

BLAINE STEM ACADEMY, RIVERSIDE, CA RIV-26.0

Dates Sampled (from/to)

10/22/19 To 10/22/19

Dates Received (from/to)

10/23/19 To 10/23/19

Dates Reported (from/to)

10/31/19 To 10/31/2019

Chains of Custody Received

Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

Other Analyses

6 PLM sample(s) reported by technician LAT were contracted to LA TESTING (EMSL)

All results for sub-contracted analyses may be sent separately

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
F4@0.5',F5@0.5'	4,4'-DDE	0.0020		mg/Kg	0.0020	S1@4.5',S2@4.5',S3@4.5',S4@4.	4,4'-DDE	0.027		mg/Kg	0.0020
S1@4.5',S2@4.5',S3@4.5',S4@4.	4,4'-DDT	0.0024		mg/Kg	0.0020	S1@4.5',S2@4.5',S3@4.5',S4@4.	Dieldrin	0.0057		mg/Kg	0.0020
S5@1.0',S6@1.0',S7@1.5',S8@1.	4,4'-DDE	0.011		mg/Kg	0.0020	B4@1.0',B5@0.5',B6@0.5'	4,4'-DDE	0.0036		mg/Kg	0.0020
B4@2.0',B5@1.5',B6@1.5'	4,4'-DDE	0.0023		mg/Kg	0.0020	B7@1.0',B8@0.5',B9@2.0'	4,4'-DDE	0.0032		mg/Kg	0.0020
B10@1.0',B11@0.5',B12@1.0'	4,4'-DDE	0.0030		mg/Kg	0.0020						



A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C

ONTARIO, CA 91761

951-779-0310

www.arlaboratories.com

FAX 951-779-0344

office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#s	2789
	2790
	2122

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FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1910-00151

Date Reported	10/31/19
Date Received	10/23/19
Invoice No.	87182
Cust #	P135
Permit Number	
Customer P.O.	RIV-26.0

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 F5@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	94.3		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	11.2		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	4.06		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	6.51		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	7.43		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	4.37		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Vanadium	25.1		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	33.6		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
Sample: 002 F4@0.5'							Date & Time Sampled: 10/22/19 @ 7:23	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/24/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/24/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								

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1910-00151

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Date Reported 10/31/19
Date Received 10/23/19
Invoice No. 87182
Cust # P135
Permit Number
Customer P.O. RIV-26.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 F4@0.5' Sample Matrix: Soilcontinued							Date & Time Sampled: 10/22/19 @ 7:23	
o-Terphenyl (OTP)	88	%REC		EPA 8015B		50-150	10/24/19	JEN
Sample: 003 F2@0.5' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 7:31	
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/24/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/24/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	101	%REC		EPA 8015B		50-150	10/24/19	JEN
[PAHs by GCMS]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/28/19	JEN
Acenaphthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Acenaphthylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(b)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(g,h,i)perylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(k)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Chrysene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Dibenzo(a,h)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluorene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Indeno(1,2,3-c,d)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
2-Methylnaphthalene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Naphthalene	<0.015		mg/kg	EPA 8270SIM	1.0	0.015	10/28/19	JEN
Phenanthrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN

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DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Date Reported 10/31/19
Date Received 10/23/19
Invoice No. 87182
Cust # P135
Permit Number
Customer P.O. RIV-26.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 F2@0.5' Sample Matrix: Soilcontinued							Date & Time Sampled: 10/22/19 @ 7:31	
Pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
[Semi-Volatile Surrogates]								
2-Fluorobiphenyl			%REC	EPA 8270SIM		30-115	10/28/19	JEN
p-Terphenyl-D14	74		%REC	EPA 8270SIM		18-137	10/28/19	JEN
Sample: 004 F1@0.5' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 7:33	
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	108		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	12.4		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	4.18		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	7.38		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	11.2		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	5.06		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Vanadium	27.0		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	41.8		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/24/19	JEN
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN

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Cust # P135
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PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 F1@0.5' Sample Matrix: Soilcontinued							Date & Time Sampled: 10/22/19 @ 7:33	
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	77		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Decachlorobiphenyl	76		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Sample: 005 S4@2.5' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 7:51	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	2.87		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 006 S3@1.5' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 8:10	
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	96.2		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	13.6		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	5.23		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	5.72		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	3.85		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	5.97		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB

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951-779-0310

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DENISE CLENDENING

2850 INLAND EMPIRE BLVD.

SUITE B

ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Date Reported 10/31/19

Date Received 10/23/19

Invoice No. 87182

Cust # P135

Permit Number

Customer P.O. RIV-26.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 S3@1.5'							Date & Time Sampled: 10/22/19 @ 8:10	
Sample Matrix: Soil								
.....continued								
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Vanadium	31.0		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	25.0		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/24/19	JEN
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	126		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Decachlorobiphenyl	95		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
[PAHs by GCMS]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/28/19	JEN
Acenaphthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Acenaphthylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(b)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(g,h,i)perylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(k)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Chrysene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN

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Date Reported 10/31/19
Date Received 10/23/19
Invoice No. 87182
Cust # P135
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Customer P.O. RIV-26.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 S3@1.5' Sample Matrix: Soilcontinued							Date & Time Sampled: 10/22/19 @ 8:10	
Dibenzo(a,h)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluorene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Indeno(1,2,3-c,d)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
2-Methylnaphthalene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Naphthalene	<0.015		mg/kg	EPA 8270SIM	1.0	0.015	10/28/19	JEN
Phenanthrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
[Semi-Volatile Surrogates]								
p-Terphenyl-D14	75		%REC	EPA 8270SIM		18-137	10/28/19	JEN
Sample: 007 S3@2.5' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 8:12	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	3.10		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 008 S1@1.5' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 8:27	
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/24/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/24/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	98		%REC	EPA 8015B		50-150	10/24/19	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB

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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 S1@1.5'							Date & Time Sampled: 10/22/19 @ 8:27	
Sample Matrix: Soil								
.....continued								
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	98.4		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	13.7		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	4.90		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	6.49		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	5.29		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	5.57		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Vanadium	31.2		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	27.8		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/24/19	JEN
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	115		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Decachlorobiphenyl	83		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Asbestos	SEE ATTACHED			PLM	1.0		10/31/19	LAT

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1910-00151

Date Reported	10/31/19
Date Received	10/23/19
Invoice No.	87182
Cust #	P135
Permit Number	
Customer P.O.	RIV-26.0

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2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 S1@2.5' Date & Time Sampled: 10/22/19 @ 8:29 Sample Matrix: Soil								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	4.56		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 010 S2@1.5' Date & Time Sampled: 10/22/19 @ 8:38 Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/24/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/24/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	99		%REC	EPA 8015B		50-150	10/24/19	JEN
Sample: 011 S2@2.5' Date & Time Sampled: 10/22/19 @ 8:40 Sample Matrix: Soil								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	4.46		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 012 S5@1.0' Date & Time Sampled: 10/22/19 @ 9:18 Sample Matrix: Soil								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	58.1		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 013 S6@1.0' Date & Time Sampled: 10/22/19 @ 9:38 Sample Matrix: Soil								

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SUITE B
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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 S6@1.0'							Date & Time Sampled: 10/22/19 @ 9:38	
Sample Matrix: Soil								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	4.77		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 014 S8@0.5'							Date & Time Sampled: 10/22/19 @ 9:52	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/24/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/24/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	97		%REC	EPA 8015B		50-150	10/24/19	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	103		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	14.4		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	5.19		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	7.74		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	10.2		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	5.40		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB

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SUITE B
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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 S8@0.5'							Date & Time Sampled: 10/22/19 @ 9:52	
Sample Matrix: Soil								
.....continued								
Vanadium	33.8		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	40.3		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/24/19	JEN
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	96		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Decachlorobiphenyl	92		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
[PAHs by GCMS]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/28/19	JEN
Acenaphthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Acenaphthylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(b)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(g,h,i)perylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(k)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Chrysene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Dibenzo(a,h)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluorene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN

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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 S8@0.5'							Date & Time Sampled: 10/22/19 @ 9:52	
Sample Matrix: Soil								
.....continued								
Indeno(1,2,3-c,d)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
2-Methylnaphthalene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Naphthalene	<0.015		mg/kg	EPA 8270SIM	1.0	0.015	10/28/19	JEN
Phenanthrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
[Semi-Volatile Surrogates]								
p-Terphenyl-D14	79		%REC	EPA 8270SIM		18-137	10/28/19	JEN
Asbestos	SEE ATTACHED			PLM	1.0		10/31/19	LAT
Sample: 015 S8@1.5'							Date & Time Sampled: 10/22/19 @ 9:54	
Sample Matrix: Soil								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	3.27		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 016 S7@0.5'							Date & Time Sampled: 10/22/19 @ 10:10	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/24/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/24/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	100		%REC	EPA 8015B		50-150	10/24/19	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	98.8		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB

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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 016 S7@0.5'							Date & Time Sampled: 10/22/19 @ 10:10	
Sample Matrix: Soil								
.....continued								
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	12.2		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	4.28		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	7.31		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	29.4		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	4.65		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Vanadium	27.0		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	37.0		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
Sample: 017 S7@1.5'							Date & Time Sampled: 10/22/19 @ 10:12	
Sample Matrix: Soil								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	4.69		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 018 B3@0.5'							Date & Time Sampled: 10/22/19 @ 10:36	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/24/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/24/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN

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PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 018 B3@0.5'							Date & Time Sampled: 10/22/19 @ 10:36	
Sample Matrix: Soil								
.....continued								
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	92		%REC	EPA 8015B		50-150	10/24/19	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	71.0		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	10.5		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	3.78		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	5.76		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	8.91		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	3.79		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Vanadium	25.3		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	34.6		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/24/19	JEN
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN

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ONTARIO, CA 91761

951-779-0310

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FAX 951-779-0344

office@arlaboratories.com

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CERTIFICATE OF ANALYSIS

1910-00151

Date Reported 10/31/19
Date Received 10/23/19
Invoice No. 87182
Cust # P135
Permit Number
Customer P.O. RIV-26.0

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 018 B3@0.5'							Date & Time Sampled: 10/22/19 @ 10:36	
Sample Matrix: Soil								
.....continued								
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	124		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Decachlorobiphenyl	87		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
[PAHs by GCMS]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/28/19	JEN
Acenaphthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Acenaphthylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(b)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(g,h,i)perylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(k)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Chrysene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Dibenzo(a,h)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluorene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Indeno(1,2,3-c,d)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
2-Methylnaphthalene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Naphthalene	<0.015		mg/kg	EPA 8270SIM	1.0	0.015	10/28/19	JEN
Phenanthrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
[Semi-Volatile Surrogates]								
p-Terphenyl-D14	79		%REC	EPA 8270SIM		18-137	10/28/19	JEN
Asbestos	SEE ATTACHED			PLM	1.0		10/31/19	LAT

Sample: 019 **B3DUP@0.5'**Sample Matrix: **Soil**

Date & Time Sampled: 10/22/19 @ 10:37

[TPH Gasoline (C4-C12)]



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Customer P.O. RIV-26.0

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 B3DUP@0.5'							Date & Time Sampled: 10/22/19 @ 10:37	
Sample Matrix: Soil								
.....continued								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/24/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/24/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	107		%REC	EPA 8015B		50-150	10/24/19	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	103		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	17.0		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	4.81		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	7.08		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	4.20		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	5.49		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Vanadium	45.0		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	26.7		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/24/19	JEN

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SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 B3DUP@0.5'							Date & Time Sampled: 10/22/19 @ 10:37	
Sample Matrix: Soil								
.....continued								
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	150		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Decachlorobiphenyl	90		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
[PAHs by GCMS]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/28/19	JEN
Acenaphthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Acenaphthylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(b)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(g,h,i)perylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(k)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Chrysene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Dibenzo(a,h)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluorene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Indeno(1,2,3-c,d)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
2-Methylnaphthalene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Naphthalene	<0.015		mg/kg	EPA 8270SIM	1.0	0.015	10/28/19	JEN
Phenanthrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
[Semi-Volatile Surrogates]								
p-Terphenyl-D14	80		%REC	EPA 8270SIM		18-137	10/28/19	JEN

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 SUITE B
 ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 B3DUP@0.5' Sample Matrix: Soilcontinued							Date & Time Sampled: 10/22/19 @ 10:37	
Asbestos	SEE ATTACHED			PLM	1.0		10/31/19	LAT
Sample: 020 B3@1.5' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 10:38	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	25.0		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 021 B3DUP@1.5' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 10:39	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	11.1		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 022 B8@0.5' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 12:28	
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	1.94		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	84.6		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	11.3		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	3.71		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	10.5		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	13.6		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	4.25		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB

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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 022 B8@0.5'							Date & Time Sampled: 10/22/19 @ 12:28	
Sample Matrix: Soil								
.....continued								
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Vanadium	24.8		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	46.0		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/24/19	JEN
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	136		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Decachlorobiphenyl	85		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Asbestos	SEE ATTACHED			PLM	1.0		10/31/19	LAT
Sample: 023 B5@0.5'							Date & Time Sampled: 10/22/19 @ 12:45	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/24/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/24/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								

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CERTIFICATE OF ANALYSIS

1910-00151

Date Reported 10/31/19
Date Received 10/23/19
Invoice No. 87182
Cust # P135
Permit Number
Customer P.O. RIV-26.0

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 023 B5@0.5' Sample Matrix: Soilcontinued					Date & Time Sampled:		10/22/19 @ 12:45	
o-Terphenyl (OTP)	92		%REC	EPA 8015B		50-150	10/24/19	JEN
Sample: 024 B5@1.5' Sample Matrix: Soil					Date & Time Sampled:		10/22/19 @ 12:47	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	10.7		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 025 B6@0.5' Sample Matrix: Soil					Date & Time Sampled:		10/22/19 @ 12:59	
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	1.03		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	70.4		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	10.5		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	3.70		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	8.94		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	8.76		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	4.12		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Vanadium	25.3		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	41.1		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ

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PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 026 B9@2.0'							Date & Time Sampled: 10/22/19 @ 13:18	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/25/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/25/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	88		%REC	EPA 8015B		50-150	10/24/19	JEN
[PAHs by GCMS]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/28/19	JEN
Acenaphthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Acenaphthylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(a)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(b)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(g,h,i)perylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Benzo(k)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Chrysene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Dibenzo(a,h)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Fluorene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Indeno(1,2,3-c,d)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
2-Methylnaphthalene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Naphthalene	<0.015		mg/kg	EPA 8270SIM	1.0	0.015	10/28/19	JEN
Phenanthrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
Pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	10/28/19	JEN
[Semi-Volatile Surrogates]								
p-Terphenyl-D14	84		%REC	EPA 8270SIM		18-137	10/28/19	JEN

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DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 027 B9@5.0'							Date & Time Sampled: 10/22/19 @ 13:22	
Sample Matrix: Soil								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	1.76		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 028 B12@1.0'							Date & Time Sampled: 10/22/19 @ 13:33	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		10/25/19	JEN
C4-C12	<0.20		mg/Kg	CA LUFT	1.0	0.20	10/25/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/24/19	JEN
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/24/19	JEN
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	96		%REC	EPA 8015B		50-150	10/24/19	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Barium	74.5		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Chromium	9.63		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Cobalt	3.47		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Copper	8.13		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Lead	10.2		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Nickel	4.09		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB

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SUITE B
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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Date Reported 10/31/19
Date Received 10/23/19
Invoice No. 87182
Cust # P135
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Customer P.O. RIV-26.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 028 B12@1.0' Sample Matrix: Soilcontinued							Date & Time Sampled: 10/22/19 @ 13:33	
Vanadium	19.3		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Zinc	26.4		mg/Kg	EPA 6010B	1.0	5.00	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/24/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/24/19	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/24/19	JEN
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	10/24/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	137		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Decachlorobiphenyl	87		%REC	EPA 8081A/8082		50-150	10/24/19	JEN
Asbestos	SEE ATTACHED			PLM	1.0		10/31/19	LAT
Sample: 029 B12@2.0' Sample Matrix: Soil							Date & Time Sampled: 10/22/19 @ 13:35	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/24/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/24/19	TLB
Lead	2.30		mg/Kg	EPA 6010B	1.0	0.500	10/24/19	TLB
Sample: 030 EB102219 Sample Matrix: Aqueous							Date & Time Sampled: 10/22/19 @ 13:55	
[TPH Gasoline (C4-C12)]								
Gasoline (C4-C12)	<100		µg/L	CA LUFT	1.0	100	10/23/19	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3510C	1.0		10/24/19	JEN

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ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 030 EB102219							Date & Time Sampled: 10/22/19 @ 13:55	
Sample Matrix: Aqueous								
.....continued								
C13-C22	<0.40		mg/L	EPA 8015B	1.0	0.40	10/24/19	JEN
C23-C40	<0.80		mg/L	EPA 8015B	1.0	0.80	10/24/19	JEN
[Surrogate]								
o-Terphenyl (OTP)	100		%REC	EPA 8015B		50-150	10/24/19	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1.0		10/24/19	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1.0	0.0200	10/24/19	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1.0	0.0200	10/24/19	TLB
Barium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	10/24/19	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1.0	0.00500	10/24/19	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1.0	0.00500	10/24/19	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	10/24/19	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1.0	0.00500	10/24/19	TLB
Copper	<0.0100		mg/L	EPA 6010B	1.0	0.0100	10/24/19	TLB
Lead	<0.0200		mg/L	EPA 6010B	1.0	0.0200	10/24/19	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1.0	0.0100	10/24/19	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1.0	0.0100	10/24/19	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1.0	0.0200	10/24/19	TLB
Silver	<0.0200		mg/L	EPA 6010B	1.0	0.0200	10/24/19	TLB
Thallium	<0.100		mg/L	EPA 6010B	1.0	0.100	10/24/19	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	10/24/19	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1.0	0.0400	10/24/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7470A	1.0		10/30/19	JEN
Mercury	<0.500		ug/L	EPA 7470A	1.0	0.500	10/30/19	JEN
[Pesticides and PCBs]								
Sep Funnel LLE	Complete			EPA 3510C	1.0		10/24/19	JEN
Aldrin	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
alpha-BHC	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
beta-BHC	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
delta-BHC	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN

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PLACEWORKS

DENISE CLENDENING

2850 INLAND EMPIRE BLVD.

SUITE B

ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 030 EB102219							Date & Time Sampled: 10/22/19 @ 13:55	
Sample Matrix: Aqueous								
.....continued								
gamma-BHC	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
Chlordane	<0.50		µg/L	EPA 8081A	1.0	0.50	10/25/19	JEN
4,4'-DDD	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
4,4'-DDE	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
4,4'-DDT	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
Dieldrin	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
Endosulfan I	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
Endosulfan II	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
Endosulfan Sulfate	<0.10		µg/L	EPA 8081A	1.0	0.10	10/25/19	JEN
Endrin	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
Endrin Aldehyde	<0.10		µg/L	EPA 8081A	1.0	0.10	10/25/19	JEN
Endrin Ketone	<0.50		µg/L	EPA 8081A	1.0	0.50	10/25/19	JEN
Heptachlor	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
Heptachlor Epoxide	<0.050		µg/L	EPA 8081A	1.0	0.050	10/25/19	JEN
Methoxychlor	<0.50		µg/L	EPA 8081A	1.0	0.50	10/25/19	JEN
Toxaphene	<0.50		µg/L	EPA 8081A	1.0	0.50	10/25/19	JEN
Sep Funnel LLE	Complete			EPA 3510C	1.0		10/24/19	JEN
Aroclor 1016	<0.50		µg/L	EPA 8082	1.0	0.50	10/25/19	JEN
Aroclor 1221	<0.50		µg/L	EPA 8082	1.0	0.50	10/25/19	JEN
Aroclor 1232	<0.50		µg/L	EPA 8082	1.0	0.50	10/25/19	JEN
Aroclor 1242	<0.50		µg/L	EPA 8082	1.0	0.50	10/25/19	JEN
Aroclor 1248	<0.50		µg/L	EPA 8082	1.0	0.50	10/25/19	JEN
Aroclor 1254	<0.50		µg/L	EPA 8082	1.0	0.50	10/25/19	JEN
Aroclor 1260	<0.50		µg/L	EPA 8082	1.0	0.50	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	110		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	118		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
[PAHs by GCMS]								
Sep Funnel LLE	Complete			EPA 3510C	1.0		10/25/19	JEN
Acenaphthene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Acenaphthylene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN

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CERTIFICATE OF ANALYSIS

1910-00151

Date Reported	10/31/19
Date Received	10/23/19
Invoice No.	87182
Cust #	P135
Permit Number	
Customer P.O.	RIV-26.0

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 030 EB102219							Date & Time Sampled: 10/22/19 @ 13:55	
Sample Matrix: Aqueous								
.....continued								
Anthracene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Benzo(a)anthracene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Benzo(a)pyrene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Benzo(b)fluoranthene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Benzo(g,h,i)perylene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Benzo(k)fluoranthene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Chrysene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Dibenzo(a,h)anthracene	<9.50		ug/L	EPA 8270SIM	1.0	9.50	10/28/19	JEN
Fluoranthene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Fluorene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Indeno(1,2,3-c,d)pyrene	<9.50		ug/L	EPA 8270SIM	1.0	9.50	10/28/19	JEN
2-Methylnaphthalene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Naphthalene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Phenanthrene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
Pyrene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	10/28/19	JEN
[Semi-Volatile Surrogates]								
p-Terphenyl-D14	87		%REC	EPA 8270SIM		10-157	10/28/19	JEN
Sample: 031 F4@0.5',F5@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN

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PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 031 F4@0.5',F5@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	100		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	86		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 032 F1@0.5',F2@0.5',F3@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN

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PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 032 F1@0.5',F2@0.5',F3@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	92		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	103		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 033 S1@1.5',S2@1.5',S3@1.5',S4@1.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN

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2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 033 S1@1.5',S2@1.5',S3@1.5',S4@1.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	107		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	96		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 034 S1@2.5',S2@2.5',S3@2.5',S4@2.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN

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ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 034 S1@2.5',S2@2.5',S3@2.5',S4@2.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	123		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	113		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 035 S1@4.5',S2@4.5',S3@4.5',S4@4.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	0.027		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	0.0024		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	0.0057		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								

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CERTIFICATE OF ANALYSIS

1910-00151

Date Reported 10/31/19
Date Received 10/23/19
Invoice No. 87182
Cust # P135
Permit Number
Customer P.O. RIV-26.0

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 035 S1@4.5',S2@4.5',S3@4.5',S4@4.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
Tetrachloro-m-xylene	106		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	101		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 036 B1@0.5',B2@0.5',B3@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	115		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	103		%REC	EPA 8081A/8082		50-150	10/25/19	JEN

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PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 037 B1@1.5',B2@1.5',B3@1.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	125		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	117		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 038 B1DUP@1.5',B2DUP@1.5',B3DUP@1.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN

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2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 038 B1DUP@1.5',B2DUP@1.5',B3DUP@1.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	106		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	105		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 039 S5@0.5',S6@0.5',S7@0.5',S8@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN

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SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 039 S5@0.5',S6@0.5',S7@0.5',S8@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/28/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	95		%REC	EPA 8081A/8082		50-150	10/28/19	JEN
Decachlorobiphenyl	106		%REC	EPA 8081A/8082		50-150	10/28/19	JEN
Sample: 040 S5@1.0',S6@1.0',S7@1.5',S8@1.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDE	0.011		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN

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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 040 S5@1.0',S6@1.0',S7@1.5',S8@1.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/28/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	97		%REC	EPA 8081A/8082		50-150	10/28/19	JEN
Decachlorobiphenyl	97		%REC	EPA 8081A/8082		50-150	10/28/19	JEN
Sample: 041 S5@3.0',S6@3.5',S7@3.5',S8@3.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN

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CERTIFICATE OF ANALYSIS

1910-00151

Date Reported 10/31/19
Date Received 10/23/19
Invoice No. 87182
Cust # P135
Permit Number
Customer P.O. RIV-26.0

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 041 S5@3.0',S6@3.5',S7@3.5',S8@3.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	104		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	102		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 042 B4@1.0',B5@0.5',B6@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	0.0036		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN

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ONTARIO, CA 91761

951-779-0310

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FAX 951-779-0344

office@arlaboratories.com

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1910-00151

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Customer P.O.	RIV-26.0

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 042 B4@1.0',B5@0.5',B6@0.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	113		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	98		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 043 B4@2.0',B5@1.5',B6@1.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDE	0.0023		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN

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2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 043 B4@2.0',B5@1.5',B6@1.5'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/25/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/25/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/25/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	117		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Decachlorobiphenyl	92		%REC	EPA 8081A/8082		50-150	10/25/19	JEN
Sample: 044 B7@1.0',B8@0.5',B9@2.0'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDE	0.0032		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/28/19	JEN

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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 044 B7@1.0',B8@0.5',B9@2.0'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
[Surrogates]								
Tetrachloro-m-xylene	127		%REC	EPA 8081A/8082		50-150	10/28/19	JEN
Decachlorobiphenyl	84		%REC	EPA 8081A/8082		50-150	10/28/19	JEN
Sample: 045 B7@2.0',B8@1.0',B9@5.0'							Date & Time Sampled: 10/22/19 @ 7:21	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/28/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	116		%REC	EPA 8081A/8082		50-150	10/28/19	JEN
Decachlorobiphenyl	75		%REC	EPA 8081A/8082		50-150	10/28/19	JEN

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ONTARIO, CA 91764

Project: **BLAINE STEM ACADEMY, RIVERSIDE, CA**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 046 B10@1.0',B11@0.5',B12@1.0'					Date & Time Sampled: 10/22/19 @ 7:21			
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDE	0.0030		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/28/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	105		%REC	EPA 8081A/8082		50-150	10/28/19	JEN
Decachlorobiphenyl	91		%REC	EPA 8081A/8082		50-150	10/28/19	JEN

Sample: 047 **B10@2.0',B11@1.5',B12@2.0'**

Date & Time Sampled: 10/22/19 @ 7:21

Sample Matrix: **Soil**

[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		10/25/19	JEN
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN



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Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 047 B10@2.0',B11@1.5',B12@2.0'					Date & Time Sampled:		10/22/19 @ 7:21	
Sample Matrix: Soil								
.....continued								
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	10/28/19	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	10/28/19	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	10/28/19	JEN
[Surrogates]								
Tetrachloro-m-xylene	111		%REC	EPA 8081A/8082		50-150	10/28/19	JEN
Decachlorobiphenyl	86		%REC	EPA 8081A/8082		50-150	10/28/19	JEN

Respectfully Submitted:

Ken Zheng - Lab Director



A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C

ONTARIO, CA 91761

951-779-0310

www.arlaboratories.com

FAX 951-779-0344

office@arlaboratories.com

FDA#	2030513
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QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
 B1 = BOD dilution water is over specifications . The reported result may be biased high.
 D = Surrogate recoveries are not calculated due to sample dilution.
 E = Estimated value; Value exceeds calibration level of instrument.
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time
 I = Matrix Interference.
 J = Analyte concentration detected between RL and MDL.
 Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
 S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
 RL = Reporting Limit, Adjusted by DF
 MDL = Method Detection Limit, Adjusted by DF
 Qual = Qualifier
 Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
 ONTARIO, CA 91761
 951-779-0310 FAX 951-779-0344
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QUALITY CONTROL DATA REPORT

PLACEWORKS
 ONTARIO, CA 91764

1910-00151

Date Reported 10/31/2019
Date Received 10/23/2019
Date Sampled 10/22/2019
Invoice No. 87182
Customer # P135
Customer P.O. RIV-26.0

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Method # CA LUFT

QC Reference # 85406 Date Analyzed: 10/23/2019 Technician: JEN

Samples 030

Results

	LCS %REC	LCS %DUP	LCS %RPD
Gasoline (C4-C12)	90	95	5

Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25

QC Reference # 85448 Date Analyzed: 10/24/2019 Technician: JEN

Samples 002 003 008 010 014 016 018 019 023

Results

	LCS %REC	LCS %DUP	LCS %RPD
C4-C12	90	94	4

Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25

QC Reference # 85480 Date Analyzed: 10/25/2019 Technician: JEN

Samples 026 028

Results

	LCS %REC	LCS %DUP	LCS %RPD
C4-C12	94	94	0

Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25

Method # EPA 6010B

QC Reference # 85418 Date Analyzed: 10/24/2019 Technician: TLB

Samples 001 004 006 008 014 016 018 019 022 025 028

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Antimony	103	105	1.8	98	100	1.7
Arsenic	105	105	0.1	104	106	2.0
Barium	104	104	0.8	120	122	2.1
Beryllium	104	106	1.4	116	118	2.0
Cadmium	100	100	0.2	88	89	1.3
Chromium	102	102	0.2	109	111	1.7
Cobalt	102	102	0.1	106	108	1.4
Copper	99	99	0.1	103	104	1.1
Lead	101	101	0.2	96	98	1.6
Molybdenum	103	103	0.3	117	121	1.6
Nickel	102	102	0.4	106	108	1.3
Selenium	103	103	0.4	83	85	1.4
Silver	103	103	0.3	89	91	1.5
Thallium	101	102	1.0	77	77	0.4
Vanadium	100	100	0.1	115	116	1.2
Zinc	100	101	0.2	85	89	1.6

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20

QC Reference # 85419 Date Analyzed: 10/24/2019 Technician: TLB



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 ONTARIO, CA 91761
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QUALITY CONTROL DATA REPORT

PLACEWORKS

1910-00151

Date Reported 10/31/2019
 Date Received 10/23/2019
 Date Sampled 10/22/2019

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Method #		EPA 6010B												
QC Reference #	85419	Date Analyzed:	10/24/2019										Technician:	TLB
Samples	005 007 009 011 012 013 015 017 020 021 024 027 029													
Results		LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges						
		LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	LCS %REC	LCS %RPD	SPIKE %RPD				
Arsenic		101	99	1.6	76	77	0.3	75 - 125	0 - 20	0 - 20				
Lead		99	98	0.9	79	82	3.6	75 - 125	0 - 20	0 - 20				
QC Reference #		EPA 7470A												
QC Reference #	85420	Date Analyzed:	10/24/2019										Technician:	TLB
Samples	030													
Results		LCS %REC	LCS %DUP	LCS %RPD	Control Ranges									
		LCS %REC	LCS %DUP	LCS %RPD	LCS %REC	LCS %RPD			SPIKE %RPD					
Antimony		97	102	5.1	75 - 125	0 - 20								
Arsenic		101	100	0.8	75 - 125	0 - 20								
Barium		95	94	0.2	75 - 125	0 - 20								
Beryllium		95	95	0.5	75 - 125	0 - 20								
Cadmium		101	100	1.3	75 - 125	0 - 20								
Chromium		96	96	0.6	75 - 125	0 - 20								
Cobalt		102	100	1.9	75 - 125	0 - 20								
Copper		98	96	1.5	75 - 125	0 - 20								
Lead		102	100	1.7	75 - 125	0 - 20								
Molybdenum		102	102	0.5	75 - 125	0 - 20								
Nickel		103	101	1.8	75 - 125	0 - 25								
Selenium		99	98	0.6	75 - 125	0 - 20								
Silver		101	99	2.0	75 - 125	0 - 20								
Thallium		98	97	1.2	75 - 125	0 - 20								
Vanadium		101	99	1.8	75 - 125	0 - 20								
Zinc		101	100	1.2	75 - 125	0 - 20								

Method #		EPA 7470A												
QC Reference #	85547	Date Analyzed:	10/30/2019										Technician:	JEN
Samples	030													
Results		LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges						
		LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	LCS %REC	LCS %RPD	SPIKE %RPD				
Mercury		78	84	7	78	80	3	75 - 125	0 - 25	0 - 25				

Method #		EPA 7471A												
QC Reference #	85439	Date Analyzed:	10/24/2019										Technician:	KZ
Samples	001 004 006 008 014 016 018 019 022 025 028													
Results		LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges						
		LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	LCS %REC	LCS %RPD	SPIKE %RPD				
Mercury		78	84	7	78	80	3	75 - 125	0 - 25	0 - 25				

Method #		EPA 8015B												
QC Reference #	85450	Date Analyzed:	10/24/2019										Technician:	JEN



A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
 ONTARIO, CA 91761
 951-779-0310 FAX 951-779-0344
 www.arlaboratories.com office@arlaboratories.com

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QUALITY CONTROL DATA REPORT

PLACEWORKS

1910-00151

Date Reported 10/31/2019
 Date Received 10/23/2019
 Date Sampled 10/22/2019

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Method # EPA 8015B

QC Reference # 85450 Date Analyzed: 10/24/2019 Technician: JEN

Samples 002 003 008 010 014 016 018 019 023 026 028

Results	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
C13-C22	107	106	1	107	116	9

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
70 - 130	0 - 25	0 - 25

QC Reference # 85455 Date Analyzed: 10/24/2019 Technician: JEN

Samples 030

Results	LCS %REC	LCS %DUP	LCS %RPD
C13-C22	116	113	3

Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25

Method # EPA 8081A

QC Reference # 85481 Date Analyzed: 10/25/2019 Technician: JEN

Samples 030

Results	LCS %REC
4,4'-DDT	118
Aldrin	136
Dieldrin	108
Endrin	117
gamma-BHC	179
Heptachlor	179

Control Ranges

LCS %REC
50 - 130
50 - 140
70 - 130
70 - 150
50 - 150
50 - 150

QC Reference # 85482 Date Analyzed: 10/25/2019 Technician: JEN

Samples 031 032 033 034 035 036 037 038 041 042 043

Results	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
4,4'-DDT	131	96	84	12
Aldrin	141	103	108	5
Dieldrin	133	103	113	10
Endrin	143	118	111	7
gamma-BHC	139	104	103	1
Heptachlor	146	105	103	2

Control Ranges

LCS %REC	SPIKE %RPD
50 - 130	0 - 30
50 - 140	0 - 30
70 - 130	0 - 30
70 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30

QC Reference # 85517 Date Analyzed: 10/28/2019 Technician: JEN

Samples 039 040 044 045 046 047



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 ONTARIO, CA 91761
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PLACEWORKS

1910-00151

Date Reported 10/31/2019
 Date Received 10/23/2019
 Date Sampled 10/22/2019

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Method # EPA 8081A

QC Reference # 85517 Date Analyzed: 10/28/2019 Technician: JEN

Samples 039 040 044 045 046 047

Results

LCS %REC

4,4'-DDT	130
Aldrin	141
Dieldrin	133
Endrin	144
gamma-BHC	139
Heptachlor	146

Control Ranges

LCS %REC

50 - 130
50 - 140
70 - 130
70 - 150
50 - 150
50 - 150

Method # EPA 8081A/8082

QC Reference # 85464 Date Analyzed: 10/24/2019 Technician: JEN

Samples 004 006 008 014 018 019 022 028

No QC recoveries reported.

QC Reference # 85481 Date Analyzed: 10/25/2019 Technician: JEN

Samples 030

No QC recoveries reported.

QC Reference # 85482 Date Analyzed: 10/25/2019 Technician: JEN

Samples 031 032 033 034 035 036 037 038 041 042 043

No QC recoveries reported.

QC Reference # 85517 Date Analyzed: 10/28/2019 Technician: JEN

Samples 039 040 044 045 046 047

No QC recoveries reported.

Method # EPA 8082

QC Reference # 85464 Date Analyzed: 10/24/2019 Technician: JEN

Samples 004 006 008 014 018 019 022 028

Results

LCS %REC LCS %DUP LCS %RPD SPIKE %REC SPIKE %DUP SPIKE %RPD

Aroclor 1016	112	98	14	97	96	1
--------------	-----	----	----	----	----	---

Control Ranges

LCS %REC LCS %RPD SPIKE %RPD

70 - 130	0 - 25	0 - 25
----------	--------	--------

QC Reference # 85481 Date Analyzed: 10/25/2019 Technician: JEN

Samples 030

Results

LCS %REC

Aroclor 1016	112
--------------	-----

Control Ranges

LCS %REC

70 - 130

Method # EPA 8270SIM

QC Reference # 85536 Date Analyzed: 10/28/2019 Technician: JEN



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1650 S. GROVE AVE., SUITE C
 ONTARIO, CA 91761
 951-779-0310 FAX 951-779-0344
 www.arlaboratories.com office@arlaboratories.com

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QUALITY CONTROL DATA REPORT

PLACEWORKS

1910-00151

Date Reported 10/31/2019
 Date Received 10/23/2019
 Date Sampled 10/22/2019

Project: BLAINE STEM ACADEMY, RIVERSIDE, CA

Method # EPA 8270SIM

QC Reference # 85536 Date Analyzed: 10/28/2019 Technician: JEN

Samples 003 006 014 018 019 026

Results

	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Acenaphthene	94	88	94	6
Pyrene	103	92	99	7

Control Ranges

LCS %REC	SPIKE %RPD
40 - 110	0 - 25
35 - 140	0 - 25

No method blank results were above reporting limit

Respectfully Submitted:

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



LA Testing

5431 Industrial Drive, Huntington Beach, CA 92649

Phone/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com>

gardengrovelab@latesting.com

LA Testing Order: 331922711

CustomerID: 32CENT50

CustomerPO:

ProjectID:

Attn: **Jennifer Iniguez**
A & R Laboratories
1650-C South Grove Avenue
Ontario, CA 91761

Phone: (800) 798-9336
Fax: (951) 779-0344
Received: 10/24/19 11:25 AM
Analysis Date: 10/31/2019
Collected: 10/22/2019

Project: 1910-151 Blaine Stem Academy, Riverside, CA

Test Report: Asbestos Analysis via Polarized Light Microscopy, Qualitative

Sample	Description	Appearance	Result	Notes
1 331922711-0001	S1@1.5'	Gray/White Non-Fibrous Heterogeneous	None Detected	
2 331922711-0002	S8@0.5'	Brown Non-Fibrous Homogeneous	None Detected	
3 331922711-0003	B3@0.5'	Brown/Gray Non-Fibrous Heterogeneous	None Detected	
4 331922711-0004	B3Dup@0.5'	Brown/Tan Non-Fibrous Heterogeneous	None Detected	
5 331922711-0005	B8@0.5'	Brown/Gray Non-Fibrous Heterogeneous	None Detected	
6 331922711-0006	B12@1.0'	Brown Non-Fibrous Heterogeneous	None Detected	

Analyst(s)

Alexis Rodriguez (6)

Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing recommends that soil samples reported as "ND" be tested by the EPA Screening Method/Qualitative. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by LA Testing, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing Huntington Beach, CA

Initial report from 10/31/2019 11:02:00

Client Name PLACEWORKS				<input checked="" type="checkbox"/> Chilled		Analyses Requested										Turn Around Time Requested							
E-mail DCELENDENING@PLACEWORKS.COM				<input checked="" type="checkbox"/> Intact		EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) LUFT / 8015 (Gasoline) LUFT / 8015 (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA 8015M (Carbon Chain C4-C40) EPA 6010B/7000 (CAM 17 Metals) Micro: Plate Cnt., Coliform, E-Coli 6010B AS6/Pl 827051M 5/06/19 Asbestos by Light Microscopy										<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal							
Address 2850 INLAND EMPIRE BLVD ONTARIO CA 91764				<input type="checkbox"/> Seal												Report Attention Denise Phone # 909 989 4999 Sampled By M. Watson		Project No./ Name RIV26.0		Project Site Blaine STEM Academy RIVERSIDE CA		(Hold) C=Composite X=discards see F4@0.5' (31) F4@0.5, F5@0.5' see F1@0.5' see F1@0.5' see F1@0.5, F2@0.5, F3@0.5' see S1@1.5' see S1@2.5' see S1@4.5' see S1@1.5' see S1@2.5' see S1@4.5' (32) S1@1.5, S2@1.5, F2@1.5, S4@1.5' (31) S1@2.5, S2@2.5, F3@2.5, S3@2.5' (32) S1@4.5, S2@4.5, F3@4.5, S4@4.5' see S1@1.5'	
Lab # (Lab use)		Client Sample ID		Sample Collection Date Time												Matrix Type		Sample Preserve		No., type* & size of container			
1	F5@0.5'	10/22/19	0721	Soil	ice	1 glass jar																	
2	F4@0.5'		0723																				
	F3@0.5'		0728																				
3	F2@0.5'		0731																				
4	F1@0.5'		0733																				
	S4@1.5'		0749			acetate sleeve																	
5	S4@2.5'		0751																				
	S4@4.5'		0753																				
6	S3@1.5'		0810																				
7	S3@2.5'		0812																				
	S3@4.5'		0814																				
8	S1@1.5'		0827																				
9	S1@2.5'		0829																				
	S1@4.5'		0831																				
10	S2@1.5'		0838																				
Relinquished By [Signature] Company PLACEWORKS		Date 10/22/19 Time 1050		Received By [Signature] Company		Date 10/23 Time 10:50		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.															
Relinquished By Company		Date Time		Received By Company		Date Time																	

Matrix Code: DW=Drinking Water SL=Sludge Preservative Code IC=Ice SH=NaOH	GW=Ground Water SS=Soil/Sediment HC=HCl ST=Na2S2O3	WW=Waste Water AR=Air HN=HNO3 HS=H2SO4	SD=Solid Waste PP=Pure Product	* Sample Container Types: T=Tedlar Air Bag B= Brass Tube E= EnCore	G=Glass Container P=Plastic Bottle	V=VOA Vial
---	---	---	-----------------------------------	--	---------------------------------------	------------

Client Name PLACEWORKS				<input checked="" type="checkbox"/> Chilled		Analyses Requested										Turn Around Time Requested	
E-mail DCLENDING@PLACEWORKS.COM				<input checked="" type="checkbox"/> Intact												<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal	
Address 2850 INLAND EMPIRE BLVD #B ONTARIO CA 91761				<input type="checkbox"/> Seal		EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) LUFT / 8015 (Gasoline) LUFT / 8015 (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA 8015M (Carbon Chain C4-C40) EPA 6010B(7000 (CAM 17 Metals) Micro: Plate Cnt., Coliform, E-Coli X 6010B As 6 PA 8270-SIM SVOCs Asbestos by Polarized Microscopy											
Report Attention Dense		Phone # 909 989 4449		Sampled By M. Watan													
Project No./ Name RIV-26.0		Project Site Plaine STEM Academy Riverside, CA				Hold C-composite X=duplicate see 51e2.5' see 51e4.5' (36) B1e0.5', B2e0.5', B3e0.5' (37) B1e1.5', B2e1.5', B3e1.5' (38) B1DUP@1.5', B2DUP@1.5', B3DUP@1.5' (39) S5e0.5', S6e0.5', S7e0.5', S8e0.5' (40) S5e1.0', S6e1.0', S7e1.0', S8e1.0' (41) S5e3.0', S6e3.0', S7e3.0', S8e3.0' see 55e0.5' see 55e1.0' see 55e3.0' see 55e0.5' see 55e1.0'											
Lab #		Client Sample ID		Sample Collection													
				Date		Time											
11		52e2.5'		10/22/19		0840		Soil ice acetate sleeve									
		52e4.5'				0842											
		B1e0.5'				0853											
		B1DUP@0.5'				0854											
		B1e1.5'				0855											
		B1DUP@1.5'				0856											
		B1e3.5'				0857											
		S5e0.5'				0916											
12		S5e1.0'				0918											
		S5e3.0'				0920											
		S6e0.5'				0936											
13		S6e1.0'				0938											
		S6e3.0'				0940											
14		S8e0.5'				0952											
15		S8e1.5'				0954											
Relinquished By [Signature]		Company PLACEWORKS		Date 10/23/19		Time 1050		Received By [Signature]		Company [Signature]		Date 10/23		Time 1050		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.	
Relinquished By		Company		Date		Time		Received By		Company		Date		Time			

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
--------------	--	--	-------------------	---	--	--	---	-----------

Client Name PLACEWORKS				<input checked="" type="checkbox"/> Chilled		Analyses Requested EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) LUFT / 8015 (Gasoline) LUFT / 8015 (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA 8015M (Carbon Chain C4-C40) EPA 6010B/7000 (CAM 17 Metals) Micro: Plate Cnt., Coliform, E-Coli 6010B As & Pb 8270-SIM SVOCs Asbestos by Polarized Microscopy										Turn Around Time Requested		
E-mail DCLENDING@PLACEWORKS.COM				<input checked="" type="checkbox"/> Intact												<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal		
Address 2850 INLAND EMPIRE BLVD #B ONTARIO CA 91764				<input type="checkbox"/> Seal														
Report Attention Demise		Phone # 909 989 4449		Sampled By M. Watson														
Project No./ Name RIV 26.0		Project Site Blaine STEM Academy Riverside CA																
Lab # (Lab use)	Client Sample ID	Sample Collection Date Time		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Remarks	C=complete X=discarded	
	S803.5'	10/22/19	0956	Soil	ice	acotable steel												
16	S700.5'		1010										XX					see 550.5'
17	S701.5'		1012												X			see 550.0'
	S703.5'		1014															see 550.3.0'
18	B300.5		1036										XXX					see 610.5'
19	B300.5		1037										XXX					see 610.5'
20	B301.5		1038												X			see 610.5'
21	B301.5		1039												X			see 610.5'
	B303.5		1040															X
	B200.5'		1052															see 610.5'
	B200.5'		1053															X
	B201.5'		1054															see 610.5'
	B201.5'		1055															see 610.5'
	B203.5'		1056															X
	B401.0'		1112															(42) see 640.0, 650.5, 660.5
Relinquished By [Signature]		Company PLACEWORKS		Date 10/23/19		Time 1050		Received By [Signature]		Company		Date 10/23		Time 1050		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.		
Relinquished By		Company		Date		Time		Received By		Company		Date		Time				

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCI HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T= Tedlar Air Bag G= Glass Container ST= Steel Tube	B= Brass Tube P= Plastic Bottle V= VOA Vial	E= EnCore
--------------	--	--	-------------------	-----------------------------	-----------------------------------	--	---	-----------

Client Name PLACEWORKS				<input checked="" type="checkbox"/> Chilled		Analyses Requested										Turn Around Time Requested			
E-mail DCCLENDENING@PLACEWORKS.COM				<input checked="" type="checkbox"/> Intact		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B(7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal				
Address 2850 INLAND AVENUE #108 ONTARIO CA 91764				<input type="checkbox"/> Seal											6016B As & Pb 8270 SIM SVOC Asbestos by Polarized Light Microscopy				
Report Attention Denise		Phone # 909 989 4199		Sampled By M. Watson		Project No./ Name RN-26.0										Project Site Blaine STEM Academy Riverside, CA			
Lab # <small>(Lab use)</small>	Client Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks		
		Date	Time																
	B4@2.0'	10/21/19	1114	soil	ice	acetate sleeve												(43) HOLD	C-computer no duplicate B4@2.0' B5@1.5'
	B4@4.0'		1116															X	
	B7@1.0'		1128															(44)	B7@1.0', B9@0.5', B9@2.0'
	B7@2.0'		1130															(45)	B7@2.0', B9@1.0', B9@0.5'
	B7@4.0'		1132															X	
	B10@1.0'		1147															(46)	B10@1.0', B11@0.5', B12@1.0'
	B10@2.0'		1149															(47)	B10@2.0', B11@1.5', B12@0.5'
	B10@4.0'		1151															X	
	B11@0.5'		1208																see B10@1.0'
	B11@1.5'		1210																see B10@2.0'
	B11@3.5'		1212															X	
22	B8@0.5'		1228																see B7@1.0'
	B8@1.0'		1230																see B7@2.0'
	B8@3.0'		1232															X	
23	B5@0.5'		1245																see B4@1.0'

Relinquished By [Signature]	Company PLACEWORKS	Date 10/23/19	Time 1050	Received By [Signature]	Company [Signature]	Date 10/23	Time 1050
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types:	T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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A & R Laboratories
 1650 S. Grove Ave., Ste C, Ontario, CA 91761
 Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
 E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #:

1910-151

Page **5** of **5**

Client Name PLACEWORKS				<input checked="" type="checkbox"/> Chilled		Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal	
E-mail D.CLENDENING@PLACEWORKS.COM				<input checked="" type="checkbox"/> Intact													
Address 2850 INLAND EMPIRE BL #8 ONTARIO CA 91761				<input type="checkbox"/> Seal		EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) LUFT / 8015 (Gasoline) LUFT / 8015 (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA 8015M (Carbon Chain C4-C40) EPA 6010B/7000 (CAM 17 Metals) Micro: Plate Cnt., Coliform, E-Coli 6010B As & Pb 8270-SIM SVOCs Asbestos by Polarized Light Microscopy										<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Normal	
Report Attention Demetri		Phone # 909 989 4449		Sampled By M. Watson													
Project No./ Name RIV-26.0		Project Site Blaine STEM Academy Riverside, CA															
Lab # (Lab use)	Client Sample ID	Sample Collection Date Time		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Hold	Remarks
24	B5E1.5'	10/22/19	1247	Soil	ice	acetate sealed					C					X	C=complete X=43 Jumbo see B4E2.0'
	B5E3.5'		1249													X	
25	B6E0.5'		1259								C		X				see B4E1.0'
	B6E1.5'		1301								C						see B4E2.0'
	B6E3.5'		1303													X	
26	B9E2.0'		1318								C	X	X				see B7E1.0'
27	B9E5.0'		1322								C				X		see B7E2.0'
	B9E7.0'		1324													X	
28	B12E1.0'		1333								C	X	X	X			see B10E1.0'
29	B12E2.0'		1335								C				X		see B10E2.0'
	B12E4.0'		1337													X	
30	EB102219		1355	aqueous	ice	2 amber, 3 plastic, 3 VOA's					X	X	X			X	

Relinquished By [Signature]	Company PLACEWORKS	Date 10/23/19	Time 1050	Received By [Signature]	Company [Signature]	Date 10/23	Time 1050
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
--------------	--	--	-------------------	-----------------------------	-----------------------------------	--	---	-----------



Sample Acceptance Checklist

CLIENT: Placeworks

WORK ORDER NUMBER: 1910-151

Temperature: (Criteria: 0.0°C-6.0°C)
 Sample Temp. (w/CF) °C(w/CF) 4.3°C

Sample(s) outside temperature criteria: PM contacted by : _____
 Sample(s) outside temperature criteria, but received on ice/chilled on same day of sampling.
 Sample(s) received at ambient temperature; placed on ice for transport by courier.
 Ambient Temperature Air Filter

CUSTODY SEAL:

Cooler Present and Intact Present and Not Intact Not Present
 Sample(s) Present and Intact Present and Not Intact Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	<input checked="" type="checkbox"/>		
Were sample IDs present?	<input checked="" type="checkbox"/>		
Were sampling dates & times present?	<input checked="" type="checkbox"/>		
Was a relinquished signature present?	<input checked="" type="checkbox"/>		
Were the tests required clearly indicated?	<input checked="" type="checkbox"/>		
Were all samples sealed in plastic bags?		<input checked="" type="checkbox"/>	
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>		
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>		
Was a sufficient amount of samples sent for tests indicated?	<input checked="" type="checkbox"/>		
Was there headspace in VOA vials?			<input checked="" type="checkbox"/>
Were the containers labeled with correct preservatives?	<input checked="" type="checkbox"/>		

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal
 Verbal: PM Initials: _____ Data/Time: _____
 Email: Send to: _____ Data/Time: _____
 Project Manager's response:

Completed By: Date: 10/23/19



A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C

ONTARIO, CA 91761

951-779-0310

www.arlaboratories.com

FAX 951-779-0344

office@arlaboratories.com

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LA City#	10261
ELAP#s	2789
	2790
	2122

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CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng, President
05/14/2020 21:11:38

Laboratory Job No. (Certificate of Analysis No.)

2005-00003

Project Name / No.

BLAINE STEM RIVERSIDE , CA

Dates Sampled (from/to)

05/01/20 To 05/01/20

Dates Received (from/to)

05/01/20 To 05/01/20

Dates Reported (from/to)

05/14/20 To 5/14/2020

Chains of Custody Received

Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

Other Analyses

2 PLM sample(s) reported by technician LAT were contracted to LA TESTING (EMSL)

All results for sub-contracted analyses may be sent separately

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Result	Qual	Units	RL
B-14@0.5', B-15@0.5'	4,4'-DDE	0.0073		mg/Kg	0.0020				



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CERTIFICATE OF ANALYSIS

2005-00003

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM RIVERSIDE , CA

Date Reported 05/14/20
Date Received 05/01/20
Invoice No. 88818
Cust # P135
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 B14@0.5'							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		05/01/20	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	05/01/20	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3580A	1.0		05/01/20	SR
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	05/04/20	SR
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	05/04/20	SR
[Surrogate]								
o-Terphenyl (OTP)	85		%REC	EPA 8015B		50-150	05/04/20	SR
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		05/04/20	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Barium	77.2		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Chromium	11.0		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Cobalt	3.50		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Copper	16.6		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Lead	6.83		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Nickel	5.43		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Vanadium	23.5		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Zinc	60.5		mg/Kg	EPA 6010B	1.0	5.00	05/04/20	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		05/06/20	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	05/06/20	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		05/01/20	SR

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CERTIFICATE OF ANALYSIS

2005-00003

PLACEWORKS

DENISE CLENDENING

2850 INLAND EMPIRE BLVD.

SUITE B

ONTARIO, CA 91764

Project: BLAINE STEM RIVERSIDE , CA

Date Reported 05/14/20

Date Received 05/01/20

Invoice No. 88818

Cust # P135

Permit Number

Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 B14@0.5'							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Soil								
.....continued								
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
[Surrogates]								
Tetrachloro-m-xylene	133		%REC	EPA 8081A/8082		50-150	05/01/20	SR
Decachlorobiphenyl	91		%REC	EPA 8081A/8082		50-150	05/01/20	SR
[PAHs by GCMS]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		05/04/20	JEN
Acenaphthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Acenaphthylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(a)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(a)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(b)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(g,h,i)perylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(k)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Chrysene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Dibenzo(a,h)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Fluorene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Indeno(1,2,3-c,d)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
2-Methylnaphthalene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Naphthalene	<0.015		mg/kg	EPA 8270SIM	1.0	0.015	05/04/20	JEN
Phenanthrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
[Semi-Volatile Surrogates]								
2-Fluorobiphenyl			%REC	EPA 8270SIM		30-115	05/04/20	JEN

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2005-00003

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ONTARIO, CA 91764

Project: BLAINE STEM RIVERSIDE , CA

Date Reported 05/14/20
Date Received 05/01/20
Invoice No. 88818
Cust # P135
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 B14@0.5' Sample Matrix: Soilcontinued							Date & Time Sampled: 05/01/20 @ 7:50	
p-Terphenyl-D14	134		%REC	EPA 8270SIM		18-137	05/04/20	JEN
Asbestos	SEE ATTACHED			PLM	1.0		05/14/20	LAT
Sample: 002 B14@DUP0.5' Sample Matrix: Soil							Date & Time Sampled: 05/01/20 @ 7:51	
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		05/01/20	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	05/01/20	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3580A	1.0		05/01/20	SR
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	05/04/20	SR
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	05/04/20	SR
[Surrogate]								
o-Terphenyl (OTP)	103		%REC	EPA 8015B		50-150	05/04/20	SR
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		05/04/20	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Barium	75.1		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Chromium	10.5		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Cobalt	3.46		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Copper	13.2		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Lead	6.78		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Nickel	5.44		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Vanadium	22.8		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB

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2005-00003

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM RIVERSIDE , CA

Date Reported 05/14/20
Date Received 05/01/20
Invoice No. 88818
Cust # P135
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 B14@DUP0.5'							Date & Time Sampled: 05/01/20 @ 7:51	
Sample Matrix: Soil								
.....continued								
Zinc	51.4		mg/Kg	EPA 6010B	1.0	5.00	05/04/20	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		05/06/20	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	05/06/20	KZ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		05/01/20	SR
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/01/20	SR
[Surrogates]								
Tetrachloro-m-xylene	133		%REC	EPA 8081A/8082		50-150	05/01/20	SR
Decachlorobiphenyl	98		%REC	EPA 8081A/8082		50-150	05/01/20	SR
[PAHs by GCMS]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		05/04/20	JEN
Acenaphthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Acenaphthylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(a)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(a)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(b)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(g,h,i)perylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Benzo(k)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Chrysene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Dibenzo(a,h)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Fluorene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Indeno(1,2,3-c,d)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN

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Date Received 05/01/20
Invoice No. 88818
Cust # P135
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 B14@DUP0.5' Sample Matrix: Soilcontinued							Date & Time Sampled: 05/01/20 @ 7:51	
2-Methylnaphthalene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Naphthalene	<0.015		mg/kg	EPA 8270SIM	1.0	0.015	05/04/20	JEN
Phenanthrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
Pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	05/04/20	JEN
[Semi-Volatile Surrogates]								
2-Fluorobiphenyl			%REC	EPA 8270SIM		30-115	05/04/20	JEN
p-Terphenyl-D14	142		%REC	EPA 8270SIM		18-137	05/04/20	JEN
Asbestos	SEE ATTACHED			PLM	1.0		05/14/20	LAT
Sample: 003 B14@1.0' Sample Matrix: Soil							Date & Time Sampled: 05/01/20 @ 7:56	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		05/04/20	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Sample: 004 B14DUP@1.0' Sample Matrix: Soil							Date & Time Sampled: 05/01/20 @ 7:57	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		05/04/20	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Sample: 005 B15@0.5' Sample Matrix: Soil							Date & Time Sampled: 05/01/20 @ 8:18	
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		05/01/20	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	05/01/20	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3580A	1.0		05/01/20	SR
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	05/04/20	SR
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	05/04/20	SR
[Surrogate]								
o-Terphenyl (OTP)	122		%REC	EPA 8015B		50-150	05/04/20	SR

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 B15@0.5'					Date & Time Sampled:		05/01/20 @	8:18
Sample Matrix: Soil								
.....continued								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		05/04/20	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Barium	83.2		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Chromium	11.8		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Cobalt	4.20		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Copper	10.7		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Lead	6.32		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Nickel	5.54		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/04/20	TLB
Vanadium	29.3		mg/Kg	EPA 6010B	1.0	0.500	05/04/20	TLB
Zinc	44.2		mg/Kg	EPA 6010B	1.0	5.00	05/04/20	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		05/06/20	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	05/06/20	KZ
Sample: 006 EB050120					Date & Time Sampled:		05/01/20 @	7:50
Sample Matrix: Aqueous								
[TPH Gasoline (C4-C12)]								
C4-C12	<100		µg/L	LUFT GC/MS	1.0	100	05/01/20	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3510C	1.0		05/01/20	SR
C13-C22	<0.40		mg/L	EPA 8015B	1.0	0.40	05/04/20	SR
C23-C40	<0.80		mg/L	EPA 8015B	1.0	0.80	05/04/20	SR
[Surrogate]								

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 EB050120							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Aqueous								
.....continued								
o-Terphenyl (OTP)	116		%REC	EPA 8015B		50-150	05/04/20	SR
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1.0		05/04/20	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1.0	0.0200	05/04/20	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1.0	0.0200	05/04/20	TLB
Barium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	05/04/20	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1.0	0.00500	05/04/20	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1.0	0.00500	05/04/20	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	05/04/20	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1.0	0.00500	05/04/20	TLB
Copper	<0.0100		mg/L	EPA 6010B	1.0	0.0100	05/04/20	TLB
Lead	<0.0200		mg/L	EPA 6010B	1.0	0.0200	05/04/20	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1.0	0.0100	05/04/20	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1.0	0.0100	05/04/20	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1.0	0.0200	05/04/20	TLB
Silver	<0.0200		mg/L	EPA 6010B	1.0	0.0200	05/04/20	TLB
Thallium	<0.100		mg/L	EPA 6010B	1.0	0.100	05/04/20	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	05/04/20	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1.0	0.0400	05/04/20	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7470A	1.0		05/06/20	KZ
Mercury	<0.500		ug/L	EPA 7470A	1.0	0.500	05/06/20	KZ
[Pesticides and PCBs]								
Sep Funnel LLE	Complete			EPA 3510C	1.0		05/01/20	SR
Aldrin	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
alpha-BHC	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
beta-BHC	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
delta-BHC	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
gamma-BHC	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
Chlordane	<0.50		µg/L	EPA 8081A	1.0	0.50	05/01/20	SR
4,4'-DDD	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR

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Cust # P135

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 EB050120							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Aqueous								
.....continued								
4,4'-DDE	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
4,4'-DDT	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
Dieldrin	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
Endosulfan I	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
Endosulfan II	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
Endosulfan Sulfate	<0.10		µg/L	EPA 8081A	1.0	0.10	05/01/20	SR
Endrin	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
Endrin Aldehyde	<0.10		µg/L	EPA 8081A	1.0	0.10	05/01/20	SR
Endrin Ketone	<0.50		µg/L	EPA 8081A	1.0	0.50	05/01/20	SR
Heptachlor	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
Heptachlor Epoxide	<0.050		µg/L	EPA 8081A	1.0	0.050	05/01/20	SR
Methoxychlor	<0.50		µg/L	EPA 8081A	1.0	0.50	05/01/20	SR
Toxaphene	<0.50		µg/L	EPA 8081A	1.0	0.50	05/01/20	SR
Sep Funnel LLE	Complete			EPA 3510C	1.0		05/01/20	SR
Aroclor 1016	<0.50		µg/L	EPA 8082	1.0	0.50	05/01/20	SR
Aroclor 1221	<0.50		µg/L	EPA 8082	1.0	0.50	05/01/20	SR
Aroclor 1232	<0.50		µg/L	EPA 8082	1.0	0.50	05/01/20	SR
Aroclor 1242	<0.50		µg/L	EPA 8082	1.0	0.50	05/01/20	SR
Aroclor 1248	<0.50		µg/L	EPA 8082	1.0	0.50	05/01/20	SR
Aroclor 1254	<0.50		µg/L	EPA 8082	1.0	0.50	05/01/20	SR
Aroclor 1260	<0.50		µg/L	EPA 8082	1.0	0.50	05/01/20	SR
[Surrogates]								
Tetrachloro-m-xylene	118		%REC	EPA 8081A/8082		50-150	05/01/20	SR
Decachlorobiphenyl	130		%REC	EPA 8081A/8082		50-150	05/01/20	SR
[PAHs by GCMS]								
Sep Funnel LLE	Complete			EPA 3510C	1.0		05/01/20	JEN
Acenaphthene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Acenaphthylene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Anthracene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Benzo(a)anthracene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Benzo(a)pyrene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN

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SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM RIVERSIDE , CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 EB050120							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Aqueous								
.....continued								
Benzo(b)fluoranthene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Benzo(g,h,i)perylene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Benzo(k)fluoranthene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Chrysene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Dibenzo(a,h)anthracene	<9.50		ug/L	EPA 8270SIM	1.0	9.50	05/04/20	JEN
Fluoranthene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Fluorene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Indeno(1,2,3-c,d)pyrene	<9.50		ug/L	EPA 8270SIM	1.0	9.50	05/04/20	JEN
2-Methylnaphthalene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Naphthalene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Phenanthrene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
Pyrene	<5.0		ug/L	EPA 8270SIM	1.0	5.0	05/04/20	JEN
[Semi-Volatile Surrogates]								
p-Terphenyl-D14	126		%REC	EPA 8270SIM		10-157	05/04/20	JEN
Sample: 007 B-13@0.5',B-14@1.0',B-15@1.5',B-16@0.5'							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		05/01/20	SR
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	05/01/20	SR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR

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ONTARIO, CA 91761

951-779-0310

www.arlaboratories.com

FAX 951-779-0344

office@arlaboratories.com

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CERTIFICATE OF ANALYSIS

2005-00003

Date Reported 05/14/20
Date Received 05/01/20
Invoice No. 88818
Cust # P135
Permit Number
Customer P.O.

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM RIVERSIDE , CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 B-13@0.5',B-14@1.0',B-15@1.5',B-16@0.5'							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Soil								
.....continued								
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	05/01/20	SR
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	05/01/20	SR
[Surrogates]								
Tetrachloro-m-xylene	90		%REC	EPA 8081A/8082		50-150	05/01/20	SR
Decachlorobiphenyl	131		%REC	EPA 8081A/8082		50-150	05/01/20	SR
Sample: 008 B-13DUP@0.5',B-14DUP@1.0',B-15DUP@1.5', B-16DUP@0.5'							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		05/01/20	SR
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	05/01/20	SR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR

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ONTARIO, CA 91761

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CERTIFICATE OF ANALYSIS

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Customer P.O.

PLACEWORKS

DENISE CLENDENING

2850 INLAND EMPIRE BLVD.

SUITE B

ONTARIO, CA 91764

Project: BLAINE STEM RIVERSIDE , CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 B-13DUP@0.5',B-14DUP@1.0',B-15DUP@1.5', B-16DUP@0.5'							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Soil								
.....continued								
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	05/01/20	SR
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	05/01/20	SR
[Surrogates]								
Tetrachloro-m-xylene	119		%REC	EPA 8081A/8082		50-150	05/01/20	SR
Decachlorobiphenyl	140		%REC	EPA 8081A/8082		50-150	05/01/20	SR
Sample: 009 B-14@0.5',B-15@0.5'							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Soil								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		05/01/20	SR
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	05/01/20	SR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
4,4'-DDE	0.0073		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	05/01/20	SR

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1650 S. GROVE AVE., SUITE C
 ONTARIO, CA 91761
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 www.arlaboratories.com office@arlaboratories.com

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DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: BLAINE STEM RIVERSIDE , CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 B-14@0.5',B-15@0.5'							Date & Time Sampled: 05/01/20 @ 7:50	
Sample Matrix: Soil								
.....continued								
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	05/01/20	SR
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	05/01/20	SR
[Surrogates]								
Tetrachloro-m-xylene	133		%REC	EPA 8081A/8082		50-150	05/01/20	SR
Decachlorobiphenyl	132		%REC	EPA 8081A/8082		50-150	05/01/20	SR

Respectfully Submitted:

Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
 B1 = BOD dilution water is over specifications . The reported result may be biased high.
 D = Surrogate recoveries are not calculated due to sample dilution.
 E = Estimated value; Value exceeds calibration level of instrument.
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time
 I = Matrix Interference.
 J = Analyte concentration detected between RL and MDL.
 Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
 S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
 RL = Reporting Limit, Adjusted by DF
 MDL = Method Detection Limit, Adjusted by DF
 Qual = Qualifier
 Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



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 ONTARIO, CA 91761
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QUALITY CONTROL DATA REPORT

PLACEWORKS

2005-0003

Date Reported 05/14/2020

Date Received 05/01/2020

Date Sampled 05/01/2020

Project: BLAINE STEM RIVERSIDE , CA

Method # EPA 7470A

QC Reference # 89169 Date Analyzed: 5/6/2020 Technician: KZ

Samples 006

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Mercury	90	96	6	78	84	7

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 25	0 - 25

Method # EPA 7471A

QC Reference # 89167 Date Analyzed: 5/6/2020 Technician: KZ

Samples 001 002 005

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Mercury	84	80	5	80	78	3

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 25	0 - 25

Method # EPA 8015B

QC Reference # 89134 Date Analyzed: 5/4/2020 Technician: SR

Samples 001 002 005

Results

	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
C13-C22	86	75	83	8

Control Ranges

LCS %REC	SPIKE %RPD
70 - 130	0 - 25

QC Reference # 89136 Date Analyzed: 5/4/2020 Technician: SR

Samples 006

Results

	LCS %REC	LCS %DUP	LCS %RPD
C13-C22	113	113	0

Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25

Method # EPA 8081A

QC Reference # 89112 Date Analyzed: 5/1/2020 Technician: SR

Samples 007 008 009

Results

	LCS %REC	LCS %DUP	LCS %RPD
4,4'-DDT	99	81	18
Aldrin	94	101	7
Dieldrin	122	104	18
Endrin	101	105	4
gamma-BHC	80	101	21
Heptachlor	93	89	4

Control Ranges

LCS %REC	LCS %RPD
50 - 130	0 - 30
50 - 140	0 - 30
70 - 130	0 - 30
70 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30

QC Reference # 89115 Date Analyzed: 5/1/2020 Technician: SR



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 ONTARIO, CA 91761
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QUALITY CONTROL DATA REPORT

PLACEWORKS

2005-0003

Date Reported 05/14/2020
 Date Received 05/01/2020
 Date Sampled 05/01/2020

Project: BLAINE STEM RIVERSIDE , CA

Method # EPA 8081A

QC Reference # 89115 Date Analyzed: 5/1/2020 Technician: SR

Samples 006

Results

	LCS %REC	LCS %DUP	LCS %RPD
4,4'-DDT	102	94	8
Aldrin	113	104	9
Dieldrin	111	110	1
Endrin	107	89	18
gamma-BHC	109	112	3
Heptachlor	98	100	2

Control Ranges

LCS %REC	LCS %RPD
50 - 130	0 - 30
50 - 140	0 - 30
70 - 130	0 - 30
70 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30

Method # EPA 8081A/8082

QC Reference # 89112 Date Analyzed: 5/1/2020 Technician: SR

Samples 007 008 009

No QC recoveries reported.

QC Reference # 89113 Date Analyzed: 5/1/2020 Technician: SR

Samples 001 002

No QC recoveries reported.

QC Reference # 89115 Date Analyzed: 5/1/2020 Technician: SR

Samples 006

No QC recoveries reported.

Method # EPA 8082

QC Reference # 89113 Date Analyzed: 5/1/2020 Technician: SR

Samples 001 002

Results

	LCS %REC	LCS %DUP	LCS %RPD
Aroclor 1016	102	93	9

Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25

QC Reference # 89115 Date Analyzed: 5/1/2020 Technician: SR

Samples 006

Results

	LCS %REC	LCS %DUP	LCS %RPD
Aroclor 1016	100	96	4

Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25

Method # EPA 8270SIM

QC Reference # 89139 Date Analyzed: 5/4/2020 Technician: JEN

Samples 001 002



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QUALITY CONTROL DATA REPORT

PLACEWORKS

2005-0003

Date Reported 05/14/2020

Date Received 05/01/2020

Date Sampled 05/01/2020

Project: BLAINE STEM RIVERSIDE , CA

Method # EPA 8270SIM

QC Reference # 89139 Date Analyzed: 5/4/2020 Technician: JEN

Samples 001 002

Results

LCS %REC LCS %DUP LCS %RPD

Acenaphthene	91	96	5
Pyrene	120	130	10

Control Ranges

LCS %REC LCS %RPD

40 - 110	0 - 25
35 - 140	0 - 25

Method # LUFT GC/MS

QC Reference # 89110 Date Analyzed: 5/1/2020 Technician: SR

Samples 001 002 005

Results

LCS %REC LCS %DUP LCS %RPD

C4-C12	105	125	20
--------	-----	-----	----

Control Ranges

LCS %REC LCS %RPD

70 - 130	0 - 25
----------	--------

QC Reference # 89111 Date Analyzed: 5/1/2020 Technician: SR

Samples 006

Results

LCS %REC LCS %DUP LCS %RPD

C4-C12	103	108	5
--------	-----	-----	---

Control Ranges

LCS %REC LCS %RPD

70 - 130	0 - 25
----------	--------

No method blank results were above reporting limit

Respectfully Submitted:

Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



LA Testing

5431 Industrial Drive, Huntington Beach, CA 92649

Phone/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com>

gardengrovelab@latesting.com

LA Testing Order: 332008365

CustomerID: 32CENT50

CustomerPO:

ProjectID:

Attn: **Jennifer Iniguez**
A & R Laboratories
1650-C South Grove Avenue
Ontario, CA 91761

Phone: (800) 798-9336
Fax: (951) 779-0344
Received: 05/05/20 1:00 PM
Analysis Date: 5/14/2020
Collected: 5/1/2020

Project: 2005-00003 / Blaine STEM Riverside, CA

Test Report: Qualitative asbestos analysis of soils using the EPA 600/R-93/116 method

Sample	Description	Appearance	Result	Notes
1 332008365-0001	B14 @ 0.5'	Brown/Gray/Tan Non-Fibrous Heterogeneous	None Detected	
2 332008365-0002	B14 Dup @ 0.5'	Brown/Gray/Tan Non-Fibrous Heterogeneous	None Detected	

Analyst(s)

Tony Salgado (2)

Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing recommends that soil samples reported as "ND" be tested by the EPA Screening Method/Qualitative. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by LA Testing, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing Huntington Beach, CA

Initial report from 05/14/2020 14:08:50

#332008365

A & R Laboratories

1650-C S. Grove Avenue

Ontario, CA 91761

V: 951 779 0310 • 800.798.9336 F: 951.779.0344

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Chain of Custody Record

A & R Work Order #

2005-00003

Page of

Project No: Blaine STEM Riverside, CA
 Project Name: Blaine STEM Riverside, CA
 Project Manager: Jennifer Iniguez
 Phone: 951-779-0310 Fax: 951-779-0344

Customer Name: (Report and Billing) A & R Laboratories
 Street Address: (Report and Billing) 1650 S. Grove Ave., Ste. C
 Email: jennifer.iniguez@arlaboratories.com
 City, State Zip: Ontario, CA 91761

Analyses Requested (circle appropriate)

Preserved	Micro: Plate Count, Coliform, E-Coli	Chem: BOD, TSS, TDS, pH, EC	Chem: Cyanide, Ammonia, Oil & Grease	IC: Br, SO4, PO4, NO3, NO2, Cl	Metals: Title 22 (CAM17 Metals) or RCRA	LUFT Gas or 8015 GRC or C4-C12	LUFT Diesel or 8015 DFO or C13-C40	VOCs by GCMS: 8260 or 624	VOCs by GCMS: BTEX, OXYs	S/VOCs: 8270 or 625	Pest. &/or PCBs: 608 or 8081/8082	XX (Asbestos PLM) (Qualitative)
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Turn Around
 24hr RUSH*
 48hr RUSH*
 Normal
 Other

*PRIOR approval, additional fee, work received after 4 pm will be processed next work day.

Special Instructions

Lab # (Lab use only)	Sample ID (As it should appear on report)	Grab/ Comp	Date sampled	Time sampled	Sample matrix	Container # & Type
1	B14 @ 0.5'		5/1/20	7:50	Soil	4oz Jar
2	B14 Dop @ 0.5'		↓	7:51	↓	↓

1) Relinquished by: (Sampler's Signature) [Signature] Date: 5-5-20 Time: 12:55
 2) Received by: [Signature] Date: 5/5/20 Time: 1pm
 3) Relinquished by: Date: Time:
 4) Received by: Date: Time:
 5) Relinquished by: Date: Time:
 6) Received for Laboratory by: Date: Time:

Disposal
 Return
 Lab Disposal
 Unless other arrangements are made samples will be disposed of 60 days after receipt.

This section is to be completed by laboratory personnel:
 Samples Crilled: Yes No
 Custody Seals: Yes No
 Samples Intact: Yes No
 Temp C:
 Delivery: Courier Walk In
 UPS/Fed Ex
 Report Delivery Formats:
 Paper EMAIL XLS
 EDD, Type _____
 EDF, EPA Site ID _____

Laboratory Notes: Please cc: jenny.jiang@arlaboratories.com

CHEMISTRY - MICROBIOLOGY - FOOD SAFETY - CONSUMER PRODUCTS - MOBILE LABORATORIES - COSMETICS

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

* LA Testing *

OrderID: 332008365

Client Name PLACWORKS				<input checked="" type="checkbox"/> Chilled		Analyses Requested										Turn Around Time Requested	
E-mail DCCLEND@PLACWORKS.COM				<input checked="" type="checkbox"/> Intact		EPA8260B (VOCs & Oxygenates) EPA8260B (BTEX & Oxygenates) LUFT / 8015 (Gasoline) LUFT / 8015 (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA 8015M (Carbon Chain C4-C40) EPA 6010B/7000 (CAM 17 Metals) Micro: Plate Cnt., Coliform, E-Coli 6010B AS 8270 5M 5VOCs Asbestos by Polarize Light Microscopy										<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal	
Address 2850 INLAND EMPKT BFB ONTARIO CA 91761				<input type="checkbox"/> Seal												Project Attention Denise Phone # 909 989 4444 Sampled By M. J. Jensen	
Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Remarks	
	F6C0.5'	5/1/20	0717	Soil	ice	1 glass jar											
	B13C0.5'		0730								C						⑦ B-13C0.5' B-14C1.0' B-15C1.5' B-16C0.5'
	B13DUP0.5'		0731								C						⑧ B-13DUP0.5' B-14DUP1.0' B-15DUP1.5' B-16DUP0.5'
	B13C2.5'		0738														X B-14C0.5' B-15C0.5'
1	B14C0.5'		0750						(M)		X	X	X				⑨ No PCB duplicate see B-13C0.5'
2	B14DUP0.5'		0751						(M)		X	X	X				see B-13DUP0.5'
3	B14C1.0'		0756								C						see B-13C0.5'
4	B14DUP1.0'		0757								C						see B-13DUP0.5'
	B14P3.0' (M)		0803														X see B-14C0.5'
5	B15C0.5'		0818								C	X	X				see B-13C0.5'
	B15C1.5'		0826								C						see B-13DUP0.5'
	B15DUP1.5'		0827								C						see B-13DUP0.5'
	B15C3.5'		0835														X see B-13C0.5'
	B16C0.5'		0850								C						see B-13DUP0.5'
	B16DUP0.5'		0851								C						see B-13DUP0.5'
Relinquished By [Signature] Company PLACWORKS		Date 5/1/20	Time 1038	Received By [Signature] Company		Date 5/1/20	Time 1038	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.									
Relinquished By _____ Company _____		Date _____	Time _____	Received By _____ Company _____		Date _____	Time _____										

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
--------------	--	--	-------------------	-----------------------------	-----------------------------------	--	---	-----------



A & R Laboratories

1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: **2005-00003**

Client Name PLACEWORKS						<input checked="" type="checkbox"/> Chilled										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
E-mail DCLENDING@PLACEWORKS.COM						<input checked="" type="checkbox"/> Intact										
Address 2855 INLAND EMPIRE BL #B ONTARIO CA 91724						<input type="checkbox"/> Seal										
Report Attention Denise		Phone # 909 989 4449		Sampled By M. Watson		Analyses Requested EPA8260B (VOCs & Oxygenates) _____ EPA8260B(BTEX & Oxygenates) _____ LUFT / 8015 (Gasoline) _____ LUFT / 8015 (Diesel) _____ EPA8081A (Organochlorine Pesticides) _____ EPA 8082 (PCBs) _____ EPA 8015M (Carbon Chain C4-C40) _____ EPA 6010B/7000 (CAM 17 Metals) _____ Micro: Plate Cnt., Coliform, E-Coli _____ 6010B AS 8270 SIM SVCS Asbestos by Polaroid Light Microscopy										Remarks
Project No./ Name RIV-26.0		Project Site Blaine STEM Riverside, CA														
Lab # (Lab use)	Client Sample ID	Sample Collection Date Time		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Remarks
	B16E2.5'	5/12/20	0901	Soil	ice	3 glass jar										X
6	EB050120	↓	0925	aqueous	ice, HCl	3VOAs, 29mls, 1 plastic					X	X	X	X		X

Relinquished By [Signature]	Company PLACEWORKS	Date 5/12/20	Time 1038	Received By [Signature]	Company _____	Date 5/1/20	Time 1038
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste	SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product	Preservative Code: IC=Ice, HC=HCl, HN=HNO3	SH=NaOH, ST=Na2S2O3, HS=H2SO4	* Sample Container Types: T=Teclor Air Bag, G=Glass Container, ST= Steel Tube	B= Brass Tube, P=Plastic Bottle, V=VOA Vial	E= EnCore
---	--	--	-------------------------------	---	---	-----------



Sample Acceptance Checklist

CLIENT: Placeworks

WORK ORDER NUMBER: 2005-00003

Temperature: (Criteria: 0.0°C-6.0°C)

Sample Temp. (w/CF) °C(w/CF) 2.1°c

- Sample(s) outside temperature criteria: PM contacted by :
 - Sample(s) outside temperature criteria, but received on ice/chilled on same day of sampling.
 - Sample(s) received at ambient temperature; placed on ice for transport by courier.
- Ambient Temperature Air Filter

CUSTODY SEAL:

Cooler Present and Intact Present and Not Intact Not Present
 Sample(s) Present and Intact Present and Not Intact Not Present

Sample Condition:

	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relinquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?		✓	
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?		✓	
Were the containers labeled with correct preservatives?	✓		

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal
 Verbal: PM Initials: _____ Data/Time: _____
 Email: Send to: _____ Data/Time: _____
 Project Manager's response:

Completed By: [Signature]

Date: 5-1-20



A & R Laboratories, Inc.

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CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng, President
06/03/2020 9:16:25

Laboratory Job No. (Certificate of Analysis No.)

2005-00193

Project Name / No.

ADDT'L-BLAINE STEM , RIVERSIDE,CA

Dates Sampled (from/to)

05/01/20 To 05/01/20

Dates Received (from/to)

05/01/20 To 05/01/20

Dates Reported (from/to)

06/03/20 To 6/3/2020

Chains of Custody Received

Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None



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CERTIFICATE OF ANALYSIS

2005-00193

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: ADDT'L-BLAINE STEM , RIVERSIDE,CA

Date Reported 06/03/20
Date Received 05/01/20
Invoice No. 88946
Cust # P135
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 F6@0.5'							Date & Time Sampled: 05/01/20 @ 7:17	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete	H		EPA 5035	1.0		05/28/20	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	05/28/20	SR
[Extractable Hydrocarbons]								
Extraction	Complete	H		EPA 3580A	1.0		05/29/20	SR
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	05/29/20	SR
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	05/29/20	SR
[Surrogate]								
o-Terphenyl (OTP)	86		%REC	EPA 8015B		50-150	05/29/20	SR
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		05/29/20	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/29/20	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/29/20	TLB
Barium	68.5		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Chromium	7.94		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Cobalt	3.29		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Copper	5.00		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Lead	5.19		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Nickel	3.75		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/29/20	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/29/20	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	05/29/20	TLB
Vanadium	20.3		mg/Kg	EPA 6010B	1.0	0.500	05/29/20	TLB
Zinc	24.6		mg/Kg	EPA 6010B	1.0	5.00	05/29/20	TLB
[Mercury]								
Mercury Digestion	Complete	H		EPA 7471A	1.0		06/01/20	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/01/20	KZ
[PCBs]								
Ultrasonic Extraction	Complete	H		EPA 3550	1.0		05/29/20	SR

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ONTARIO, CA 91761

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CERTIFICATE OF ANALYSIS

2005-00193

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: ADDT'L-BLAINE STEM , RIVERSIDE,CA

Date Reported 06/03/20
Date Received 05/01/20
Invoice No. 88946
Cust # P135
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 F6@0.5'							Date & Time Sampled: 05/01/20 @ 7:17	
Sample Matrix: Soil								
.....continued								
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/29/20	SR
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/29/20	SR
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/29/20	SR
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/29/20	SR
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/29/20	SR
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/29/20	SR
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1.0	0.050	05/29/20	SR
[Surrogates]								
Tetrachloro-m-xylene	52		%REC	EPA 8081A/8082		50-150	05/29/20	SR
Decachlorobiphenyl	53		%REC	EPA 8081A/8082		50-150	05/29/20	SR
[PAHs by GCMS]								
Ultrasonic Extraction	Complete	H		EPA 3550	1.0		06/01/20	JEN
Acenaphthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Acenaphthylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Benzo(a)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Benzo(a)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Benzo(b)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Benzo(g,h,i)perylene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Benzo(k)fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Chrysene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Dibenzo(a,h)anthracene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Fluoranthene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Fluorene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Indeno(1,2,3-c,d)pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
2-Methylnaphthalene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Naphthalene	<0.015		mg/kg	EPA 8270SIM	1.0	0.015	06/01/20	JEN
Phenanthrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
Pyrene	<0.010		mg/kg	EPA 8270SIM	1.0	0.010	06/01/20	JEN
[Semi-Volatile Surrogates]								
p-Terphenyl-D14	73		%REC	EPA 8270SIM		18-137	06/01/20	JEN

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CERTIFICATE OF ANALYSIS

2005-00193

PLACEWORKS
DENISE CLENDENING
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ONTARIO, CA 91764

Date Reported 06/03/20
 Date Received 05/01/20
 Invoice No. 88946
 Cust # P135
 Permit Number
 Customer P.O.

Project: ADDT'L-BLAINE STEM , RIVERSIDE,CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
----------	--------	------	-------	--------	----	----	------	------

Respectfully Submitted:

Ken Zheng - Lab Director

QUALIFIERS

- B = Detected in the associated Method Blank at a concentration above the routine RL.
- B1 = BOD dilution water is over specifications . The reported result may be biased high.
- D = Surrogate recoveries are not calculated due to sample dilution.
- E = Estimated value; Value exceeds calibration level of instrument.
- H = Analyte was prepared and/or analyzed outside of the analytical method holding time
- I = Matrix Interference.
- J = Analyte concentration detected between RL and MDL.
- Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
- S = Customer provided specification limit exceeded.

ABBREVIATIONS

- DF = Dilution Factor
- RL = Reporting Limit, Adjusted by DF
- MDL = Method Detection Limit, Adjusted by DF
- Qual = Qualifier
- Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



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 ONTARIO, CA 91761
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QUALITY CONTROL DATA REPORT

PLACEWORKS
 ONTARIO, CA 91764

2005-00193

Date Reported 06/03/2020
 Date Received 05/01/2020
 Date Sampled 05/01/2020
 Invoice No. 88946
 Customer # P135
 Customer P.O.

Project: ADDT'L-BLAINE STEM, RIVERSIDE, CA

Method #	EPA 6010B									
QC Reference #	89520	Date Analyzed:	5/29/2020	Technician:	TLB					
Samples	001									
Results	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges	LCS %REC	LCS %RPD	SPIKE %RPD
Antimony	100	102	1.7	101	102	1.1	75 - 125	0 - 20	0 - 20	
Arsenic	101	102	0.7	98	99	0.7	75 - 125	0 - 20	0 - 20	
Barium	101	102	0.4	102	98	1.5	75 - 125	0 - 20	0 - 20	
Beryllium	103	104	0.7	113	112	0.8	75 - 125	0 - 20	0 - 20	
Cadmium	100	101	0.7	92	93	1.0	75 - 125	0 - 20	0 - 20	
Chromium	101	102	1.0	107	106	0.3	75 - 125	0 - 20	0 - 20	
Cobalt	100	101	0.8	98	99	1.2	75 - 125	0 - 20	0 - 20	
Copper	99	99	0.3	99	99	0.7	75 - 125	0 - 20	0 - 20	
Lead	100	100	0.5	90	91	1.7	75 - 125	0 - 20	0 - 20	
Molybdenum	100	101	1.0	108	109	1.2	75 - 125	0 - 20	0 - 20	
Nickel	101	102	0.8	96	98	1.5	75 - 125	0 - 20	0 - 20	
Selenium	102	103	0.9	84	84	0.4	75 - 125	0 - 20	0 - 20	
Silver	108	108	0.1	82	83	0.3	75 - 125	0 - 20	0 - 20	
Thallium	101	104	2.7	101	104	12.8	75 - 125	0 - 20	0 - 20	
Vanadium	100	101	1.3	112	112	0.1	75 - 125	0 - 20	0 - 20	
Zinc	101	101	0.6	89	90	0.6	75 - 125	0 - 20	0 - 20	

Method #	EPA 7471A									
QC Reference #	89559	Date Analyzed:	6/1/2020	Technician:	KZ					
Samples	001									
Results	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges	LCS %REC	LCS %RPD	SPIKE %RPD
Mercury	88	92	5	78	80	3	75 - 125	0 - 25	0 - 25	

Method #	EPA 8015B						
QC Reference #	89552	Date Analyzed:	5/29/2020	Technician:	SR		
Samples	001						
Results	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges	LCS %REC	SPIKE %RPD
C13-C22	100	92	92	0	70 - 130	0 - 25	

Method #	EPA 8081A/8082				
QC Reference #	89548	Date Analyzed:	5/29/2020	Technician:	SR
Samples	001				
No QC recoveries reported.					

Method #	EPA 8082				
QC Reference #	89548	Date Analyzed:	5/29/2020	Technician:	SR



A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
 ONTARIO, CA 91761
 951-779-0310 FAX 951-779-0344
 www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#s	2789 2790 2122

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 FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

QUALITY CONTROL DATA REPORT

PLACEWORKS

2005-00193

Date Reported 06/03/2020

Date Received 05/01/2020

Date Sampled 05/01/2020

Project: ADDT'L-BLAINE STEM, RIVERSIDE, CA

Method # EPA 8082

QC Reference # 89548 Date Analyzed: 5/29/2020 Technician: SR

Samples 001

Results

LCS %REC LCS %DUP LCS %RPD

Aroclor 1016 115 93 22

Control Ranges

LCS %REC LCS %RPD

70 - 130 0 - 25

Method # EPA 8270SIM

QC Reference # 89565 Date Analyzed: 6/1/2020 Technician: JEN

Samples 001

Results

LCS %REC LCS %DUP LCS %RPD

Acenaphthene 85 89 4
Pyrene 129 129 0

Control Ranges

LCS %REC LCS %RPD

40 - 110 0 - 25
35 - 140 0 - 25

Method # LUFT GC/MS

QC Reference # 89517 Date Analyzed: 5/28/2020 Technician: SR

Samples 001

Results

LCS %REC LCS %DUP LCS %RPD

C4-C12 104 112 8

Control Ranges

LCS %REC LCS %RPD

70 - 130 0 - 25

No method blank results were above reporting limit

Respectfully Submitted:

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



A & R Laboratories
 1650 S. Grove Ave., Ste C, Ontario, CA 91761
 Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
 E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order # **2005-193**

Page **1** of **1**

Client Name PLACWORKS		<input checked="" type="checkbox"/> Chilled		Analyses Requested										Turn Around Time Requested																																																																																																																																																																																																																																																																																																																																																																															
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Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

* Addit'l Test Added per Client Request * Client is aware of the issue * prev # 2005-00003 *

Appendix F. QAPP

Appendix

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October 2019 | Quality Assurance Project Plan

PROPOSED BLAINE STEM ACADEMY

for Riverside Unified School District

Prepared for:

Riverside Unified School District

Contact: Nadia Zeien, Assistant Director of Planning and Development
3070 Washington Street
Riverside, CA 92504

Project Number:

RIV-26.0

Prepared by:

PlaceWorks

Contact: Denise Clendening, Ph.D., Associate Principal
2850 Inland Empire Boulevard, Suite B
Ontario, California 91764
909.989.4449
info@placeworks.com
www.placeworks.com



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Table 3	Laboratory Quality Control Limits

1. Introduction

This Quality Assurance Project Plan (QAPP) has been prepared by PlaceWorks on behalf of Riverside Unified School District (District) to address quality assurance (QA) and quality control (QC) policies associated with the collection of environmental data at the proposed Blaine STEM Academy (site), in Riverside, California. This QAPP presents the plan for sampling and analysis as part of the investigation. U.S. Environmental Protection Agency (USEPA) policy requires a QAPP for all environmental data collection projects mandated or supported by the USEPA through regulations or other formalized means (USEPA 1998a). The purpose of this QAPP is to identify the methods to be employed to establish technical accuracy, precision, and validity of data that is generated at the site.

This QAPP contains general and specific details regarding field sampling, laboratory, and analytical procedures that apply to investigation activities. It provides field and laboratory personnel with instructions regarding activities to be performed before, during, and after field investigations. These instructions will ensure data collected for use in project decisions will be of the type and quality required to meet the data quality objectives (DQOs) for the project.

Guidelines followed in the preparation of this QAPP are described in EPA Requirements for Quality Assurance Plans for Environmental Data Operations, External Review Draft Final, EPA QA/R-5 (USEPA 1998a) and EPA Guidance for Quality Assurance Project Plans, EPA QA/G-5 (USEPA 1998b). Other documents that have been referenced in this plan include, Guidance for the Data Quality Objectives Process, EPA QA/G-4 (USEPA 1994a) and Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (USEPA SW-846, Third Edition, 1996).

1.1 PROJECT HISTORY AND OBJECTIVES

The project site is approximately 7-acres located on the eastern portion of the existing Riverside Sports Center, including a portion of Lot 26, which is currently utilized by the University of California, Riverside (UCR) under a license agreement with the City of Riverside. The project site is located on assessor parcel number (APN) 250-220-002, -003, -008 and a portion of -006. The project site is in Section 19 of Township 2 South, Range 4 West of the San Bernardino Base Line and Meridian.

Past usage of the site was assessed through an interview, historical aerial photographs, topographic maps and databases. Copies of historical information reviewed are included in Appendix B. Based on a review of historical information; the project site was utilized for agricultural purposes from at least 1931 to around 1966. From 1931 to 1985, the project site has also had a residential dwelling unit. From 1985 to the present, the project site has been used as an athletic field.

1. Introduction

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2. Project Description

This section presents information concerning the proposed sampling activities, selected analytical parameters, data quality objectives, and the resulting project decisions.

2.1 ANALYTICAL SCOPE

The planned sampling effort includes the sampling and analysis of shallow soils for a list of potential hazardous substances. Soil samples will be collected on the project area in accordance with the protocols detailed in the DTSC's PEA Guidance Manual (DTSC 1999).

The appropriate analyses selected for this field program, and the rationale for selection of these parameters, will be further provided in the Workplan. A&R Laboratories, Inc. (ARL), located in Ontario, California, will perform testing of soil samples.

2.2 DATA USE

Decisions to be made based upon the planned sampling and analysis effort will be determined by the data compiled from the sampling and analysis program. It is intended that data collected through implementation of this QAPP will satisfy federal, state, and local data quality requirements. These data may be used to characterize the nature and extent of contamination, support risk assessment, support the evaluation of corrective/remedial action, and/or assist in determination of additional actions.

The presence of environmental contaminants will be determined by the extent of valid detectable concentrations of the constituents discussed above. If the data associated with any detections of chemicals of potential concern (COPCs) are confirmed, the data will be used to assess risk using accepted methods for determining potential carcinogenic and non-carcinogenic exposures. If results from the risk screening evaluations indicate no risks of exposure with respect to the use of the property, then the District will use the data to support No Further Action consent from DTSC, and the proposed development may continue without modification. If the evaluation indicates unacceptable risks of exposure, then the data can be used by District for further consideration of action.

2. Site Description

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3. Project Organization

This section provides a description of the organizational structure and responsibilities of the individual positions for this project. This description defines the lines of communication and identifies key personnel assigned to various activities for the project.

3.1 RIVERSIDE UNIFIED SCHOOL DISTRICT

Nadia Zeien is the designated contact person for the District. Ms. Zeien will be responsible for the directional decisions, as well as budget control, and for work conducted at the school site. Ms. Zeien, or designee, may perform document review of related work plans, reports, and drawings for activities associated with this project.

3.2 PLACEWORKS

The investigation contractor has responsibility for assigned phases of investigation and reporting. Together the management team (Project Manager and Field Manager) will be responsible for the technical planning and implementation of the work. The QA staff has responsibility for effective planning, verification and management of QA activities associated with the assigned project.

Dr. Denise Clendening is the PlaceWorks Project Manager and will serve as the primary contact with the DTSC and the District. Her responsibilities include strategy development, budget control, document control, project management, risk assessment and document review.

Mr. Michael Watson of PlaceWorks is a Professional Geologist in the State of California. Mr. Watson's responsibilities include field activities and preparation of required reports and data validation including quality assurance/quality control.

3.3 LABORATORY

The primary offsite laboratory is anticipated to be ARL in Ontario, California. ARL will perform analytical testing for soil samples collected for this investigation. The laboratory's project manager will report to the PlaceWorks Field Manager on all aspects of the sample analysis. In addition, the PlaceWorks QA Manager will be advised of any matters related to data quality during the course of the investigation.

3. Project Organization

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4. Data Quality Objectives

DQOs have been specified for each data collection activity. The project work will be conducted and documented so that the data collected are of sufficient quality for their intended use (USEPA 1998). DQOs specify the data type, quality, quantity, and uses needed to make decisions, and are the basis for designing data collection activities. The DQOs have been used to design the data collection activities that will be presented in the Workplan. The DQOs for the project are discussed in the following sections.

4.1 DATA QUALITY OBJECTIVES

The project DQOs developed specifically for the planned sampling and analysis program have been determined based on USEPA's seven-step DQO process (USEPA 1994a). The Project Manager will evaluate the DQOs to determine if the quantitative and qualitative needs of the sampling and analysis program have been met. The project definition associated with each step of the DQO process can be summarized as follows:

State the problem: The purpose of the sampling program is to determine if the proposed site is acceptable for the development of a new educational facility. Although the proposed development of the site will result in asphalt or concrete surfacing over the majority of the site, exposed soils will exist in landscaped areas where students could come into contact. Previous investigations have not performed a complete evaluation of potential contamination based on historical use of the property.

Identify the Decision: The data obtained from the sampling and testing activities will be used to evaluate if releases of hazardous substances from historical uses have occurred at the site. The investigative results will be further evaluated to determine to what extent any contamination identified will result in risk of exposure. The results will be compiled and used to assess the relative threat associated with any contamination identified, through a baseline risk assessment. Based on the calculation of human health and ecological risks for the site, the suitability of the property for its intended development will be determined.

Identify Inputs to the Decision: Inputs to the decision will include results of analytical testing of soil gas samples, and shallow soils from selected locations on the site. Each of these matrices will be tested for the specified analytes discussed in Section II.

Define the Study Boundaries: The boundaries of the field sampling and analysis program will be the perimeter of the site as discussed above and detailed in the Workplan.

Develop a Decision Rule: Decisions will be based upon laboratory results for the target constituents presented in Tables 1 through 3 for each respective matrix tested. If no valid detectable concentrations of target compounds are reported for the given samples, then a decision will be made that the site is fully characterized with respect to the compounds tested and no further sampling will be required as part of this

4. Data Quality Objectives

investigation. If target constituents are detected in the samples tested, then the data will be compiled for use in calculating the human health and ecological risk of exposure. The results of the risk evaluation will be used by the District to support a No Further Action consent from DTSC, if the data indicate risk is acceptable.

Specify Limits on Decision Error: The results of all analytical testing will be subjected to data validation specified in Section 7.3. Data are determined to be valid if the specified DQOs for precision, accuracy, representativeness, comparability and completeness are achieved. The results of any detected target constituents will be considered in evaluating the need for additional sampling of soil gas and/or site soil, and assessing the necessity for reducing any risks posed by the potential contamination.

Optimize the Design: The field sampling program has been designed to provide the type and quantity of data needed to satisfy each of the aforementioned objectives. A separate Workplan provides the specifications for the data collection activities, including the numbers of samples, respective locations, and sampling techniques. The quality of the data will be assessed through the procedures further described in this QAPP.

4.2 PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY AND COMPLETENESS

The basis for assessing the elements of data quality is discussed in the following subsections. In the absence of laboratory specific precision and accuracy limits, the QC limits listed in this section must be met.

4.2.1 Precision

Precision measures the reproducibility of repetitive measurements. It is strictly defined as the degree of mutual agreement among independent measurements as the result of repeated application of the sample process under similar conditions.

Analytical precision is a measurement of the variability associated with duplicate or replicate analyses of the same sample in the laboratory. Precision is assessed by analysis of the results between laboratory quality control sample pairs. These include laboratory control sample (LCS) and LCS duplicates, matrix spike (MS) and MS duplicates (MSD), or sample duplicates. If the recoveries of analytes in the specified control samples pairs are comparable within established control limits, then precision criteria are satisfied.

Total precision is a measurement of the variability associated with the entire sampling and analytical process. It is determined by analysis of duplicate (two) or replicate (more than two) field samples, and measures variability introduced by both the laboratory and field operations. Field duplicate samples are analyzed to assess combined field and analytical precision.

Duplicate results are assessed using the relative percent difference (RPD) between duplicate measurements. If the RPD for laboratory quality control samples exceeds 30 percent, data will be qualified as described in the applicable validation procedure. If the RPD between primary and duplicate field samples exceeds 100 percent for soil or soil gas, data will be qualified as described in the applicable validation procedure.

4. Data Quality Objectives

The RPD is calculated as the difference between the two sample results (absolute value) divided by the average of the two sample results. The equation can be expressed as follows:

$$\%RPD = 200 \times ((x_2 - x_1) / (x_2 + x_1))$$

4.2.2 Accuracy

Accuracy is a statistical measurement of correctness of a measured value, and includes components of random error (variability due to imprecision) and systematic error. It reflects the total error associated with a measurement. A measurement is accurate when the value reported does not differ from the true value of a known concentration, spike, or standard.

Accuracy of laboratory analyses will be assessed by LCS recoveries, surrogate standard recoveries, MS spike recoveries, and initial and continuing calibrations of instruments. Laboratory accuracy is expressed as the percent recovery (%R). Accuracy limits are statistically generated by the laboratory or required by specified USEPA methods. If the percent recovery is determined to be outside of acceptance criteria, data will be qualified as described in the applicable validation procedure. The calculation of percent recovery is provided below:

$$\% R = 100 \times (X_s - X) / T$$

where X_s is the measured value of the spiked sample, X is the measured value of the unspiked sample, and T is the true value of the spike solution added.

Accuracy is also assessed by the analysis of laboratory and field blanks. Assessment of blank results provides information regarding potential bias imparted to analytical results from measurement systems and/or field conditions. Field accuracy will be assessed through the analysis of field equipment blanks. Analysis of field blanks documents bias associated with the sampling process, field contamination, sample preservation, and sample handling. The DQO for field equipment and trip blanks is that all values are less than the reporting limit for each target constituent. If contamination is reported in the field equipment or trip blanks, data will be qualified as described in the applicable validation procedure.

4.2.3 Representativeness

Representativeness is the degree to which data accurately and precisely represent selected characteristics of the media sampled. Representativeness of data collection is addressed by careful preparation of sampling and analysis programs. This QAPP addresses representativeness by specifying sufficient and proper numbers and locations of samples; incorporating appropriate sampling methodologies; specifying proper sample collection techniques and decontamination procedures; selecting appropriate laboratory methods to prepare and analyze soil and soil gas; and establishing proper field and laboratory QA/QC procedures.

4.2.4 Completeness

Completeness is the measure of valid data obtained compared to the amount that was expected under ideal conditions. The number of valid results divided by the number of possible results, expressed as a percentage,

4. Data Quality Objectives

determines the completeness of the data set. The objective for completeness is to obtain at least 90 percent of the planned data to support evaluation and assessment efforts. Specifically, for background samples, a completeness requirement of 100 percent is mandated. The formula for calculation of completeness is presented, as follows:

$$\% \text{ Completeness} = 100 \times \frac{\text{number of valid results}}{\text{number of expected results}}$$

4.2.5 Comparability

Comparability is an expression of confidence with which one data set can be compared to another. The objective of comparability is to ensure that data developed during the investigation are comparable with data previously collected (i.e., methods of analysis are comparable), and that the methods used adequately address applicable criteria or standards established by the USEPA and California Department of Health Services (CADHS). This QAPP addresses comparability by specifying laboratory methods that are consistent with the current standards of practice as approved by the USEPA and CADHS. Field methods will be discussed in the Workplan.

5. Quality Control Elements

This section presents QC requirements relevant to analysis of environmental samples that will be followed during all project analytical activities. The purpose of the QC program is to produce data of known quality that satisfy the project objectives and that meet or exceed the requirements of the standard methods of analysis. This program provides a mechanism for ongoing control and evaluation of data quality measurements through the use of QC materials.

5.1 QUALITY CONTROL ELEMENTS

The chemical data to be collected for this effort will be used to determine that the extent of contamination is properly evaluated. As such, it is critical that the chemical data is documented to be of the highest confidence and quality. Consequently, strict QA/QC procedures will be adhered to. These procedures include:

- Adherence to protocols for field sampling and decontamination procedures;
- Collection and laboratory analysis of appropriate field and equipment blanks to monitor for contamination of samples in the field or the laboratory;
- Collection and laboratory analysis of site-specific matrix spike, matrix spike duplicate, and blind duplicate samples to evaluate precision and accuracy; and
- Attainment of completeness goals.

5.1.1 Equipment Decontamination

Non-dedicated equipment will be decontaminated before and after each sample is collected. The equipment will be washed in a non-phosphate detergent and potable water, rinsed in potable water, and then double rinsed in distilled water. A description of the specific methodologies to be followed to maximize proper decontamination of non-dedicated sampling equipment is provided in the Workplan.

5.1.2 Standards

Standards used for calibration or to prepare samples will be certified by National Institute of Standards and Technology (NIST), USEPA, or other equivalent source. The standards will be current. The expiration date will be established by the manufacturer, or based on chemical stability, the possibility of contamination, and environmental and storage conditions. Standards will be labeled with expiration dates and will reference primary standard sources if applicable. Expired standards will be discarded.

5. Quality Control Elements

5.1.3 Supplies

All supplies will be inspected prior to their use in the field or laboratory. The descriptions for sample collection and analysis contained in the methods will be used as a guideline for establishing the acceptance criteria for supplies. A current inventory and appropriate storage system for these materials will assure their integrity prior to use.

5.1.4 Holding Time Compliance

Sample preparation and analysis will be completed within the required method holding times (Table 1). Holding time begins at the time of sample collection. If holding times are exceeded, and the analyses are performed, the associated results will be qualified as described in the applicable validation procedure. The following definitions of extraction and analysis compliance are used to assess holding times:

- Preparation or extraction completion - completion of the sample preparation process as described in the applicable method, prior to any necessary extract cleanup.
- Analysis completion - completion of all analytical runs, including dilutions, second-column confirmations, and any required re-analyses.

5.1.5 Preventative Maintenance

The Field Manager for PlaceWorks is responsible for documenting the maintenance of all field equipment prescribed in the manufacturer's specifications. Scheduled maintenance will be performed by trained personnel. Procedures specific to the calibration, use and maintenance of field equipment are presented in the Workplan. The analytical laboratory is responsible for all analytical equipment calibration and maintenance as described in their laboratory QA Plan. Subcontractors are responsible for maintenance of all equipment needed to carry out subcontracted duties

5.2 QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) SAMPLES

The purpose of this QA/QC program is to produce data of known quality that satisfy the project objectives and that meet or exceed the requirements of the standard methods of analysis. This program provides a mechanism for ongoing control and evaluation of data quality measurements through the use of QC materials. Quality assurance and quality control samples will be collected as part of the overall QA/QC program.

5.2.1 Laboratory Reagent Blanks

A laboratory reagent blank is de-ionized, distilled water that is extracted by the laboratory and analyzed as a sample. Analysis of the reagent blank indicates potential sources of contamination from laboratory procedures (e.g., contaminated reagents, improperly cleaned laboratory equipment, or persistent contamination due to presence of certain compounds in the ambient laboratory air). A reagent blank will be analyzed at least once each day for each method utilized by the laboratory for that day.

5. Quality Control Elements

5.2.2 Field Equipment Blanks

A field equipment blank is a sample that is prepared in the field by pouring de-ionized, distilled water into cleaned sampling equipment. The water is then collected and analyzed as a sample. Field equipment blanks are typically blind (given a fictitious name so that the laboratory will not recognize it as a blank). The field equipment blank gives an indication of contamination from field procedures (e.g., improperly cleaned sampling equipment, cross-contamination). Field equipment blanks will be collected at a minimum frequency of at least one per day when non-dedicated equipment is utilized. The field equipment blanks should be analyzed using the same analyses requested for the associated primary samples collected.

5.2.3 Trip Blanks

The primary purpose of trip blanks is to detect potential additional sources of contamination that could potentially influence contaminant values reported in field samples, both quantitatively and qualitatively. Trip blanks serve as a mechanism of control for sample bottle preparation, blank water quality and sample handling. They are generally submitted to the laboratory for analysis of VOCs. If VOCs are detected with the PID at or above 1 part per million, trip blanks will included as part of the sampling program.

5.2.4 Matrix Spike Samples

Matrix spikes are performed by the analytical laboratory to evaluate the efficiency of the sample extraction and analysis procedures, and are necessary because matrix interference (interferences from non-target compound in the sample matrix, water or soil) may have a widely varying impact on the accuracy and precision of the extraction analysis. The matrix spike is prepared by the addition of known quantities of target compounds to a sample. The sample is extracted and analyzed. The results of the analysis are compared with the known additions and a matrix spike recovery is calculated giving an evaluation of the accuracy of the extraction and analysis procedures. Matrix spike recoveries are reviewed to check that they are within acceptable range. However, the acceptable ranges vary widely with both sample matrix and analytical method. Matrix spikes and matrix spike duplicates will be analyzed by the laboratory at a frequency of at least one per twenty, or 5 percent of the primary field samples. Typically, matrix spikes are performed in duplicate in order to evaluate the precision of the procedures as well as the accuracy. Precision objectives (represented by agreement between matrix spike and matrix spike duplicate recoveries) and accuracy objectives (represented by matrix spike recovery results) are based on statistically generated limits established annually by the analytical laboratory. It is important to note that these objectives are to be viewed as goals, not as criteria. If matrix bias is suspected, the associated data will be qualified and the direction of the bias indicated in the data validation report.

5.2.5 Field Duplicate Samples

Field duplicate samples will be collected and analyzed to evaluate sampling and analytical precision. Field duplicates are collected and analyzed in the same manner as the primary samples. Agreement between duplicate sample results will indicate good sampling and analytical precision. Specific locations will be designated for collection of field duplicates prior to the start of field activities. Field duplicates will be collected at a frequency of 10 percent of the primary samples collected. The duplicate sample will be

5. Quality Control Elements

analyzed for all laboratory analyses requested for the primary sample collected. The precision goal for field duplicates analyses will be plus or minus 50 percent relative percent difference for aqueous samples and plus or minus 100 percent relative percent difference for soil, or air samples. Results for samples exceeding these goals will be qualified as estimated. Professional judgement will be used to determine if all samples in the associated batch will be qualified as well.

5.2.6 Performance Evaluation Samples

Double blind performance evaluation (PE) samples may be submitted to the analytical laboratory during any site investigation. These samples may be of water or soil matrix, and are used to assess the accuracy of analytical procedures employed for a given sample set. PE samples will be used if questionable data quality is suspected as determined during laboratory audits or data validation.

If used, double blind PE samples will be prepared by Environmental Resources Standards, or similar supplier, in similar sample containers as the project field samples and shipped from the field to the laboratory for analysis.

Double blind PE samples will be prepared using NIST and/or A2LA certified standards. The project-specific PE samples will contain known concentrations of the analytes of interest. Laboratory results will be evaluated against the original Certificates of Analyses for precision and accuracy. PE samples may be submitted for analysis as part of the laboratory pre-qualification process, or as part of a given sampling event. Results will be reported to the laboratory and presented with associated field sample results

6. Sampling Procedures

The defensibility of data is dependent on the use of well defined, accepted sampling procedures. This section describes the sampling and handling procedures that will be followed for each sampling event.

6.1 SAMPLING PROCEDURES

Collection of high integrity environmental samples is important to the quality of chemical data to be generated. To this end, detailed field procedures have been developed to guide sample collections during each phase of the field investigation. These procedures are contained in the Workplan.

6.1.1 Sample Containers, Preservation and Holding Times

Table 1 lists the required sample containers, preservatives, and recommended maximum holding times for samples. Sample containers provided by the laboratory will be new, and purchased commercially from I-Chem, Eagle Pitcher, or other equivalent validated sources.

6.1.2 Sample Handling and Storage

In the field, each sample container will be marked with the sampling location number, and date and time of sample collection. All sample containers will be wiped with paper towels and securely packed, in a cooler on ice, in preparation for delivery to the laboratory.

Upon receipt of the samples, the laboratory will immediately notify the Field Manager if conditions or problems are identified which require immediate resolution. Such conditions include container breakage, missing or improper chain-of-custody, exceeded holding times, improper preservation, missing or illegible sample labeling, or temperature excursions.

6.1.3 Sample Custody

For each sample that is submitted to the laboratory for analysis, an entry will be made on a chain-of-custody form supplied by the laboratory. The information to be recorded includes the sampling date and time, sample identification number, matrix type, requested analyses and methods, preservatives, and the sampler's name. Sampling team members will maintain custody of the samples until they are relinquished to laboratory personnel or a professional courier service. The chain-of-custody form will accompany the samples from the time of collection until received by the laboratory. Each party in possession of the samples (except the professional courier service) will sign the chain-of-custody form signifying receipt.

The chain-of-custody form will be placed in a plastic bag and shipped with samples inside the cooler. After the samples, ice, and chain-of-custody forms are packed in the coolers, the cooler will be appropriately sealed before it is relinquished to the courier. A copy of the original completed form will be provided by the

6. Sampling Procedures

laboratory along with the report of results. Upon receipt, the laboratory will inspect the condition of the sample containers and report the information on chain-of-custody or similar form.

7. Analytical Procedures

The analytical methods used for this project are primarily USEPA approved methods and are listed in Tables 1 through 3. Specific analytical method procedures are detailed in the laboratory QA Plan and standard operating procedures (SOPs) of the selected laboratory. These documents may be reviewed by PlaceWorks quality assurance staff during laboratory audits to ensure that project specifications are met. Laboratory audits are discussed in Section 9.2.

7.1 INTERNAL STANDARDS

Internal standards are measured amounts of method-specified compounds added after preparation, or extraction, of a sample. Internal standards are added to samples, controls, and blanks in accordance with method requirements to identify column injection losses, purging losses, or viscosity effects.

Acceptance limits for internal standard recoveries are set forth in the applicable method. If the internal standard recovery falls outside of acceptance criteria, the instrument will be checked for malfunction and reanalysis of the sample will be performed after any problems are resolved.

7.2 RETENTION TIME WINDOWS

Retention time windows will be established as described in SW-846 Method 8000A for applicable analyses of organic compounds. Retention time windows are used for qualitative identification of analytes and are calculated based on multiple, replicated analyses of a respective standard.

Retention times will be checked on a daily basis. Acceptance criteria for retention time windows are established in the referenced method. If the retention time falls outside the respective window, actions will be taken to correct the problem. The instrument must be re-calibrated after any retention time window failure and the affected samples must be reanalyzed.

7.3 METHOD DETECTION LIMITS

The method detection limit (MDL) is the minimum concentration of an analyte, or compound, that can be measured and reported with 99 percent confidence that the concentration is greater than zero. MDLs are established for each method, matrix and analyte, and for each instrument used to analyze project samples. MDLs are derived using the procedures described in 40CFR 136 Appendix B (USEPA 1990a). USEPA requires that MDLs be established on an annual basis. MDLs must be less than applicable reporting limits for each target analyte presented in Tables 2 and 3.

7. Analytical Procedures

7.4 INSTRUMENT CALIBRATION

Analytical instruments will be calibrated in accordance with the procedures specified in the applicable method. All analytes that are reported shall be present in the initial and continuing calibrations, and these calibrations must meet the acceptance criteria specified in the reference method. Records of standard preparation and instrument calibration will be maintained. Records shall unambiguously trace the preparation of standards and their use in calibration and quantitation of sample results. Calibration records will be traceable to standard materials as described in Section 5.2.

At the onset of analysis, instrument calibrations will be checked using all of the analytes of interest. This applies equally to multi-response analytes. At a minimum, calibration criteria will satisfy method requirements. Analyte concentrations can be determined with either calibration curves or response factors, as defined in the method. Guidance provided in SW-846 should be considered to determine appropriate evaluation procedures.

8. Data Reporting

This section presents reporting requirements relevant to the data produced during all project analytical activities.

8.1 FIELD DATA

Data measured by field instruments will be recorded in field notebooks, laptops, and/or on required field forms. Units of measure for field analyses are identified on the field forms. The field data will be reviewed by the Project or Field Manager to evaluate completeness of the field records and appropriateness of the field methods employed. All field records will be retained in the project files.

8.2 LABORATORY DATA

Analytical data will contain the necessary sample results and quality control data to evaluate the data quality objectives defined for the project. Documentation requirements for laboratory data are defined in USEPA Region IX Laboratory Documentation Requirements for Data Validation (USEPA 1990b). The laboratory reports will be consistent with USEPA Level III documentation and include the following data and summary forms:

- Narrative, cross-reference, chain-of-custody, and method references;
- Analytical results;
- Surrogate recoveries (as applicable);
- Calibration summary;
- Blank results;
- Laboratory control sample recoveries;
- Duplicate sample results or duplicate spike recoveries;
- Sample spike recoveries;
- Instrument tuning summary;
- Associated raw data; and
- Magnetic tape or equivalent upon request.

8. Data Reporting

Data validation criteria are derived from the USEPA Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review (USEPA 1994b and 1994c). The Functional Guidelines provide specific data validation criteria that can be applied to data generated for this investigation.

The laboratory data will be reviewed for compliance with the applicable method and the quality of the data reported. The following summarizes the areas of data validation.

- Holding Times;
- Calibrations;
- Blanks;
- Laboratory Control Samples;
- Matrix Spike/Matrix Spike Duplicates;
- Surrogates/Internal Standards (as applicable);
- Field Quality Control Samples; and
- Compound Identification and Quantification.

The application of data validation criteria is a function of project-specific DQOs. The QA/QC Manager will determine if the data quality objectives for the analytical data have been met. Results of the data validation review will be documented and summarized in the investigation.

8.3 PROCEDURES FOR DATA VALIDATION

Procedures for performing data validation for the types of analyses to be performed for this investigation are documented in the National Functional Guidelines. Data validation will be documented in a manner consistent with the functional guidelines. The results of the data validation will be included in a Data Validation Memorandum. This documentation will be maintained by PlaceWorks in the project files.

8.3.1 Data Qualifiers

The data validation procedures were designed to review each data set and identify biases inherent to the data and determine its usefulness. Data validation flags are applied to those sample results that fall outside of specified tolerance limits, and, therefore, did not meet the program's quality assurance objectives described in Section 3.2. Data validation flags to be used for this project are defined in the National Functional Guidelines. Data validation flags will indicate if results are considered quantitative, estimated, or rejected. Only rejected data are considered unusable for decision-making purposes; however, other qualified data may require further verification.

8. Data Reporting

8.3.2 Project Data Management

Data management is the process of organizing, maintaining, and applying a variety of data to provide a useful and coherent view of the site conditions. Data collected for this investigation include sample collection data, field measurement data, onsite laboratory analytical data, and offsite laboratory analytical data. The data management resources include staff to review and maintain project data, a computerized data management system, and a documentation filing system. The project database management system has the capability to maintain the relationship between sampling locations, samples collected, and filed and laboratory analytical results.

8. Data Reporting

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9. Performance and System Audits

Audit programs are established and directed by PlaceWorks quality assurance staff to ensure that field and laboratory activities are performed in compliance with project controlling documents. This section describes responsibilities, requirements and methods for scheduling, conducting and documenting audits of field and laboratory activities.

9.1 FIELD AUDITS

Field audits focus on appropriateness of personnel assignments and expertise, availability of field equipment, adherence to project controlling documents for sample collection and identification, sample handling and transport, use of QA samples, chain of custody procedures, equipment decontamination and documentation. Field audits are not required, but may be performed in the event significant discrepancies are identified that warrant evaluation of field practices.

9.2 LABORATORY AUDITS

Laboratory audits include reviews of sample handling procedures, internal sample tracking, SOPs, analytical data documentation, QA/QC protocols, and data reporting. Any selected mobile or offsite laboratory will be licensed by the State of California as a certified testing laboratory. If no previous audit has been conducted by PlaceWorks, a scheduled audit will be conducted by the quality assurance staff during the course of this project to ensure the integrity of sample handling and processing by the laboratory.

9.3 DATA AUDITS

Data audits will be performed on analytical results received from the laboratories. These audits will be accomplished through the process of data validation as described in Section 8.3, or may involve a more detailed review of laboratory analytical results. Data audits require the laboratory to submit complete raw data files to PlaceWorks for validation. PlaceWorks chemists will perform a review of the data consistent with the level of effort described in the National Functional Guidelines (USEPA 1994 b and c). This level of validation consists of a detailed review of sample data, including verification of data calculations for calibration and quality control samples to assess if these data are consistent with method requirements. Upon request, the laboratory will make available all supporting documentation in a timely fashion.

9.4 REPORTS TO MANAGEMENT AND RESPONSIBILITIES

Upon completion of any audit, the auditor will submit to the Project Manager and Field Manager a report or memorandum describing any problems or deficiencies identified during the audit. It is the responsibility of the Project Manager to determine if the deviations will result in any adverse effect on the project conclusions. If it is determined that corrective action is necessary, procedures outlined in Section 9.5 will be followed.

9. Performance and System Audits

9.5 CORRECTIVE ACTION

Corrective actions will be initiated whenever data quality indicators suggest that DQOs have not been met. Corrective actions will begin with identifying the source of the problem. Potential problem sources include failure to adhere to method procedures, improper data reduction, equipment malfunctions, or systemic contamination. The first level of responsibility for identifying the problems and initiating corrective action lies with the analyst/field personnel. The second level of responsibility lies with any person reviewing the data. Corrective actions may include more intensive staff training, equipment repair followed by a more intensive preventive maintenance program, or removal of the source of systemic contamination. Once resolved, the corrective action procedure will be fully documented, and if DQOs were not met, the samples in question must be recollected and/or reanalyzed utilizing a properly functioning system (USEPA 1998).

10. References

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10. References

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Table 1
Sample Containers, Preservatives, and Holding Times
Proposed Blaine STEM Academy
UC Riverside Baseball Complex
Riverside Unified School District
Riverside, California

Analyte	Method	Container	Preservative	Holding Time
SOIL ANALYSES				
Organochlorine Pesticides	EPA 8081A	4 oz glass or sleeve	4°C	14 days to extraction, 40 days to analysis
Lead	EPA 6010B	4 oz glass or sleeve	4°C	
Arsenic	EPA 6010B	4 oz glass or sleeve	4°C	180 days
SOIL GAS ANALYSES				
Volatile Organic Compounds	EPA 8260B	2-250ml glass syringes	n/a	30 minutes

Notes:

The laboratory will freeze all samples after extraction and all archived samples immediately.

No deterioration of frozen samples is expected during the time period required to complete the investigation.

Table 2
List of Method Compounds and Reporting Limits
Soil and Blank Sample Analysis
Proposed Blaine STEM Academy
UC Riverside Baseball Complex
Riverside Unified School District
Riverside, California

Title 22 Metals			
Method	Compound	Soil Reporting Limit mg/kg	Water Reporting Limit mg/l
EPA 6010B	Arsenic	1.00	0.0100
Organochlorine Pesticides			
Method	Compound	Soil Reporting Limit mg/kg	Water Reporting Limit ug/l
EPA 8081A	Aldrin	0.0010	0.040
	alpha-BHC	0.0010	0.030
	beta-BHC	0.0010	0.060
	delta-BHC	0.0010	0.090
	gamma-BHC	0.0010	0.040
	Chlordane	0.010	0.50
	4,4'-DDD	0.0020	0.050
	4,4'-DDE	0.0020	0.050
	4,4'-DDT	0.0020	0.050
	Dieldrin	0.0020	0.020
	Endosulfan I	0.0010	0.050
	Endosulfan II	0.0020	0.040
	Endosulfan Sulfate	0.0020	0.10
	Endrin	0.0020	0.050
	Endrin Aldehyde	0.0020	0.10
	Endrin Ketone	0.100	0.50
	Heptachlor	0.0010	0.030
	Heptachlor Epoxide	0.0010	0.080
	Methoxychlor	0.010	0.040
Toxaphene	0.020	0.50	

Table 3
Laboratory Quality Control Limits
Proposed Blaine STEM Academy
UC Riverside Baseball Complex
Riverside Unified School District
Riverside, California

Title 22 Metals						
Method	Compound	RL mg/kg	MDL mg/kg	LCS % Rec.	MS/MSD % Rec.	MS/MSD RPD
EPA 6010B	Arsenic	1.00	0.243	70-130	70-130	0-25
Volatile Organic Compounds						
Method	Compound	RL mg/kg	MDL mg/kg	LCS % Rec.	MS/MSD % Rec.	MS/MSD RPD
EPA 8081A	Aldrin	0.0010	0.00090	70-130	70-130	0-25
	alpha-BHC	0.0010	0.00060	70-130	70-130	0-25
	beta-BHC	0.0010	0.00030	70-130	70-130	0-25
	delta-BHC	0.0010	0.00040	70-130	70-130	0-25
	gamma-BHC	0.0010	0.00050	70-130	70-130	0-25
	Chlordane	0.010	0.0087	70-130	70-130	0-25
	4,4'-DDD	0.0020	0.0011	70-130	70-130	0-25
	4,4'-DDE	0.0020	0.00090	70-130	70-130	0-25
	4,4'-DDT	0.0020	0.00090	70-130	70-130	0-25
	Dieldrin	0.0020	0.0015	70-130	70-130	0-25
	Endosulfan I	0.0010	0.00070	70-130	70-130	0-25
	Endosulfan II	0.0020	0.0011	70-130	70-130	0-25
	Endosulfan Sulfate	0.0020	0.00090	70-130	70-130	0-25
	Endrin	0.0020	0.0014	70-130	70-130	0-25
	Endrin Aldehyde	0.0020	0.00090	70-130	70-130	0-25
	Endrin Ketone	0.100	0.0021	70-130	70-130	0-25
	Heptachlor	0.0010	0.00070	70-130	70-130	0-25
	Heptachlor Epoxide	0.0010	0.00050	70-130	70-130	0-25
	Methoxychlor	0.010	0.00090	70-130	70-130	0-25
Toxaphene	0.020	0.0110	70-130	70-130	0-25	

Notes:

Blank cells denote analytes which are not part of the normally spiked compounds.

- RL Reporting Limit
- MDL Method Detection Limit
- LCS Laboratory Control Sample
- MS/MSD Matrix Spikes/Matrix Spike Duplicates
- RPD Relative Percent Difference

Appendix G

Noise and Vibration Modeling

stem

Ambient Noise Survey Data Sheet

Instructions: Document noise measurement locations with a photo of the site, including the noise meter. Additionally, take notes on general and secondary noise sources, including the instantaneous noise level if possible. As a reminder, A/C weighting should be set to "A", and response time should typically be set to "slow." For additional information, please review the *Noise Measurement Protocols* in the case or on file.

Project Name: UCR Stem Job Number: _____
Date: 11/30/21 Operator Name: _____

Stronger winds gusts at 9-10 mph
2-5 mph

Measurement #1

Location: NM4 Begin time: 12:30 Finish time: 12:45

Measurement No.: 006 Wind (mph): 8 Direction: NNW

Cloud Cover Class: Overcast (>80%) Light (20-80%) Sunny (<20%)

Calibration (dB): Start: 94.1 End: 94.2

Primary Noise Sources: Canyon Crest Dr Distance: 550 ft from center

Secondary Noise Sources: W Blaine St

Notes: kids playing, fairly quiet and flat area, base ball/batting cages in the distance - wind in trees

Traffic Count: Passenger Cars: _____
Medium Trucks (2 axles, 6 tires): _____ Heavy Trucks (3+ axles): _____

Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): power tool 11, 12, 13 mins

L_{eq} : 50.4 SEL: 79.9 L_{max} : 56.3 L_{min} : 45.8 PK: 86.4

$L(05)$: 52.8 $L(10)$: 52.3 $L(50)$: 50.0 $L(90)$: 47.8 $L(95)$: 47.3

Response: Slow Fast Peak Impulse

Measurement #2

Location: NM1 Begin time: 12:55 Finish time: 1:10

Measurement No.: 007 Wind (mph): _____ Direction: _____

Cloud Cover Class: Overcast (>80%) Light (20-80%) Sunny (<20%)

Calibration (dB): Start: 94.2 End: 94.2

Primary Noise Sources: Blaine St Distance: 50 ft from center

Secondary Noise Sources: light post utility box

Notes: _____

Traffic Count: Passenger Cars: 190
Medium Trucks (2 axles, 6 tires): 1 Heavy Trucks (3+ axles): _____

Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): plane 2 min, 4 min

L_{eq} : 61.4 SEL: 90.9 L_{max} : 71.1 L_{min} : 48.3 PK: 91.8

$L(05)$: 66.3 $L(10)$: 65.1 $L(50)$: 59.3 $L(90)$: 50.7 $L(95)$: 49.4

Response: Slow Fast Peak Impulse

Ambient Noise Survey Data Sheet

Instructions: Document noise measurement locations with a photo of the site, including the noise meter. Additionally, take notes on general and secondary noise sources, including the instantaneous noise level if possible. As a reminder, A/C weighting should be set to "A", and response time should typically be set to "slow." For additional information, please review the *Noise Measurement Protocols* in the case or on file.

Project Name: _____ Job Number: _____
Date: _____ Operator Name: _____

Measurement #1

Location: MN2 Begin time: 1:25 Finish time: 1:40
 Measurement No.: 008 Wind (mph): 9 Direction: NNW
 Cloud Cover Class: Overcast (>80%) Light (20-80%) Sunny (<20%)
 Calibration (dB): Start: 94.2 End: 94.3
 Primary Noise Sources: Canyon Crest Distance: 50ft from Canyon Crest at center line
 Secondary Noise Sources: N/A blains
 Notes: plot of students on bikes, scooters, skateboarders, people talking loudly @ 13 min
 Traffic Count: Passenger Cars: (83)
 Medium Trucks (2 axles, 6 tires): (1) Heavy Trucks (3+ axles): _____
 Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): plane @ 5 min, distant train
 Leq: 55.3 SEL: 84.8 Lmax: 69.1 Lmin: 44.8 PK: 84.7
 L(05): 60.5 L(10): 58.4 L(50): 51.0 L(90): 46.2 L(95): 45.8
 Response: Slow Fast Peak Impulse

Measurement #2

Location: MN3 Begin time: 1:51 Finish time: 2:06
 Measurement No.: 009 Wind (mph): 9 Direction: N
 Cloud Cover Class: Overcast (>80%) Light (20-80%) Sunny (<20%)
 Calibration (dB): Start: 94.3 End: 94.3
 Primary Noise Sources: Canyon Crest Distance: 200 ft from Center
 Secondary Noise Sources: _____
 Notes: skateboarders @ 1 min, truck driving past @ 2 min, people talking @ 4 min
 Traffic Count: Passenger Cars: (69)
 Medium Trucks (2 axles, 6 tires): _____ Heavy Trucks (3+ axles): _____
 Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): plane @ 5 min
 Leq: 47.9 SEL: 77.4 Lmax: 68.3 Lmin: 36.3 PK: 87.9
 L(05): 50.7 L(10): 47.2 L(50): 41.8 L(90): 39.2 L(95): 38.4
 Response: Slow Fast Peak Impulse

Freq Weight : A
 Time Weight : SLOW
 Level Range : 40-100
 Max dB : 71.1 - 2021/11/30 13:03:58
 Level Range : 40-100
 SEL : 90.9
 Leq : 61.4

No.s	Date	Time	(dB)					
1	2021/11/30	12:56:34	54.8	52.9	52.1	52.7	61.5	
6	2021/11/30	12:56:49	64.0	58.3	59.5	67.7	67.6	
11	2021/11/30	12:57:04	60.6	54.8	61.3	63.7	60.1	
16	2021/11/30	12:57:19	60.0	60.0	52.9	50.6	50.7	
21	2021/11/30	12:57:34	50.7	51.0	52.9	53.7	57.3	
26	2021/11/30	12:57:49	64.6	64.7	63.4	63.0	64.8	
31	2021/11/30	12:58:04	60.1	59.8	56.0	64.9	60.7	
36	2021/11/30	12:58:19	54.6	52.1	50.8	50.1	50.4	
41	2021/11/30	12:58:34	53.2	60.5	58.1	54.1	52.8	
46	2021/11/30	12:58:49	53.9	57.3	65.7	61.7	64.7	
51	2021/11/30	12:59:04	68.5	65.1	62.5	63.0	59.6	
56	2021/11/30	12:59:19	64.4	63.7	61.5	61.6	63.5	
61	2021/11/30	12:59:34	63.1	67.2	66.1	64.9	63.5	
66	2021/11/30	12:59:49	57.0	63.3	68.1	67.4	63.4	
71	2021/11/30	13:00:04	57.3	52.5	50.1	50.9	52.5	
76	2021/11/30	13:00:19	58.2	60.9	59.2	60.4	55.9	
81	2021/11/30	13:00:34	56.7	61.4	56.9	57.8	63.4	
86	2021/11/30	13:00:49	60.5	61.6	63.5	65.2	64.7	
91	2021/11/30	13:01:04	67.1	64.8	59.7	58.0	61.2	
96	2021/11/30	13:01:19	59.1	61.2	56.0	57.1	59.0	
101	2021/11/30	13:01:34	53.8	51.3	50.9	54.1	60.5	
106	2021/11/30	13:01:49	56.9	62.2	59.5	53.6	50.1	
111	2021/11/30	13:02:04	49.3	50.5	54.2	63.4	64.5	
116	2021/11/30	13:02:19	61.3	58.2	52.9	50.7	50.6	
121	2021/11/30	13:02:34	51.5	60.5	60.5	58.6	64.2	
126	2021/11/30	13:02:49	66.2	60.7	58.2	65.3	68.5	
131	2021/11/30	13:03:04	69.2	61.3	64.2	63.5	54.7	
136	2021/11/30	13:03:19	51.3	52.7	58.8	62.1	55.4	
141	2021/11/30	13:03:34	51.2	50.3	50.3	53.8	55.9	
146	2021/11/30	13:03:49	58.8	55.3	63.9	68.0	63.3	
151	2021/11/30	13:04:04	62.1	57.8	52.3	50.3	50.0	
156	2021/11/30	13:04:19	49.4	49.3	49.7	51.7	57.9	
161	2021/11/30	13:04:34	55.5	52.5	60.0	62.4	60.2	
166	2021/11/30	13:04:49	60.0	60.6	61.9	60.7	57.2	
171	2021/11/30	13:05:04	53.4	57.1	69.2	67.9	63.1	
176	2021/11/30	13:05:19	60.5	60.2	59.8	61.5	57.2	
181	2021/11/30	13:05:34	60.9	59.9	54.9	59.3	63.2	
186	2021/11/30	13:05:49	63.8	67.8	69.0	64.3	60.8	
191	2021/11/30	13:06:04	61.8	62.8	56.9	64.0	61.0	
196	2021/11/30	13:06:19	63.7	64.0	64.2	63.0	56.9	
201	2021/11/30	13:06:34	51.2	52.8	63.3	60.3	58.2	
206	2021/11/30	13:06:49	61.1	60.8	60.4	54.9	52.7	
211	2021/11/30	13:07:04	60.2	58.4	54.6	59.7	54.7	
216	2021/11/30	13:07:19	51.3	51.6	53.9	56.7	61.2	
221	2021/11/30	13:07:34	61.4	58.8	55.6	55.7	56.9	
226	2021/11/30	13:07:49	59.1	56.2	51.7	53.1	61.2	
231	2021/11/30	13:08:04	63.8	63.0	62.4	60.0	64.1	
236	2021/11/30	13:08:19	65.7	65.2	61.4	59.3	59.8	
241	2021/11/30	13:08:34	62.2	57.0	60.4	56.6	63.7	
246	2021/11/30	13:08:49	62.4	55.2	52.0	50.8	55.9	
251	2021/11/30	13:09:04	62.1	67.8	59.6	59.9	59.3	
256	2021/11/30	13:09:19	66.4	61.4	54.1	49.0	49.0	
261	2021/11/30	13:09:34	50.3	58.2	64.4	57.2	59.1	
266	2021/11/30	13:09:49	62.0	68.1	65.5	60.2	61.6	
271	2021/11/30	13:10:04	52.6	48.8	48.6	48.8	52.6	
276	2021/11/30	13:10:19	59.7	65.3	60.9	54.1	56.2	
281	2021/11/30	13:10:34	62.3	64.6	66.2	63.9	60.7	
286	2021/11/30	13:10:49	57.1	54.2	49.7	48.9	48.8	
291	2021/11/30	13:11:04	48.8	49.2	48.9	48.9	50.0	
296	2021/11/30	13:11:19	54.0	58.0	59.5	61.9	65.7	

Freq Weight : A
 Time Weight : SLOW
 Level Range : 40-100
 Max dB : 69.1 - 2021/11/30 13:31:43
 Level Range : 40-100
 SEL : 84.8
 Leq : 55.3

No.s	Date Time	(dB)					
1	2021/11/30 13:26:30	54.4	50.8	55.0	48.7	46.8	
6	2021/11/30 13:26:45	45.8	46.0	46.6	45.9	46.1	
11	2021/11/30 13:27:00	46.4	49.7	57.2	49.2	46.5	
16	2021/11/30 13:27:15	46.4	46.7	48.0	57.6	55.1	
21	2021/11/30 13:27:30	50.5	53.2	53.3	55.0	56.3	
26	2021/11/30 13:27:45	55.9	60.3	61.4	56.8	50.1	
31	2021/11/30 13:28:00	48.2	47.7	46.8	46.0	46.5	
36	2021/11/30 13:28:15	46.9	46.7	46.2	46.6	46.0	
41	2021/11/30 13:28:30	45.9	45.7	46.4	46.6	47.8	
46	2021/11/30 13:28:45	47.1	47.6	46.9	47.1	47.6	
51	2021/11/30 13:29:00	47.5	47.0	45.9	45.4	46.2	
56	2021/11/30 13:29:15	49.8	58.4	54.7	54.8	55.2	
61	2021/11/30 13:29:30	51.4	57.3	58.2	54.8	53.6	
66	2021/11/30 13:29:45	48.6	49.8	58.6	52.9	50.3	
71	2021/11/30 13:30:00	49.0	48.1	46.8	46.6	45.6	
76	2021/11/30 13:30:15	45.0	50.0	58.0	50.0	48.2	
81	2021/11/30 13:30:30	48.5	49.6	55.1	49.5	50.8	
86	2021/11/30 13:30:45	62.3	54.4	48.5	51.1	48.0	
91	2021/11/30 13:31:00	51.8	57.3	60.9	55.7	54.6	
96	2021/11/30 13:31:15	60.5	55.1	57.9	65.4	61.3	
101	2021/11/30 13:31:30	61.6	64.2	67.2	67.3	65.0	
106	2021/11/30 13:31:45	62.3	58.1	53.1	51.7	60.0	
111	2021/11/30 13:32:00	59.5	58.5	57.9	54.4	49.7	
116	2021/11/30 13:32:15	48.6	48.1	51.0	55.7	62.1	
121	2021/11/30 13:32:30	61.6	56.4	54.9	54.0	53.4	
126	2021/11/30 13:32:45	50.9	53.8	51.1	49.9	49.7	
131	2021/11/30 13:33:00	56.8	53.6	62.7	58.8	50.7	
136	2021/11/30 13:33:15	47.4	46.5	47.1	48.7	48.4	
141	2021/11/30 13:33:30	47.9	46.0	45.5	46.1	50.2	
146	2021/11/30 13:33:45	49.9	57.4	55.2	55.0	52.6	
151	2021/11/30 13:34:00	51.3	48.3	48.9	56.1	55.1	
156	2021/11/30 13:34:15	56.0	55.7	61.8	53.9	47.3	
161	2021/11/30 13:34:30	47.3	55.2	49.9	45.9	47.6	
166	2021/11/30 13:34:45	47.3	45.5	45.5	45.6	49.2	
171	2021/11/30 13:35:00	62.2	54.7	51.8	53.1	51.4	
176	2021/11/30 13:35:15	54.0	56.1	57.1	51.1	48.1	
181	2021/11/30 13:35:30	49.7	55.5	53.7	55.3	49.2	
186	2021/11/30 13:35:45	47.4	47.9	50.2	59.0	53.4	
191	2021/11/30 13:36:00	55.1	61.0	54.7	52.1	52.6	
196	2021/11/30 13:36:15	56.2	50.3	48.1	46.7	48.5	
201	2021/11/30 13:36:30	55.1	57.1	50.4	49.0	51.8	
206	2021/11/30 13:36:45	55.6	48.4	47.8	48.9	48.8	
211	2021/11/30 13:37:00	51.6	58.6	57.7	56.5	51.1	
216	2021/11/30 13:37:15	49.8	49.2	49.7	51.3	51.5	
221	2021/11/30 13:37:30	48.6	48.1	47.7	49.5	49.2	
226	2021/11/30 13:37:45	52.8	55.2	54.7	48.5	46.1	
231	2021/11/30 13:38:00	45.9	47.1	46.6	50.7	55.4	
236	2021/11/30 13:38:15	57.0	50.1	48.8	46.6	45.5	
241	2021/11/30 13:38:30	45.1	45.1	45.9	47.9	49.6	
246	2021/11/30 13:38:45	61.1	60.1	56.0	50.0	49.1	
251	2021/11/30 13:39:00	52.5	57.7	57.7	52.1	53.3	
256	2021/11/30 13:39:15	56.2	57.1	54.2	51.9	48.6	
261	2021/11/30 13:39:30	48.8	48.9	50.6	48.0	46.7	
266	2021/11/30 13:39:45	49.9	51.2	49.8	52.6	58.1	
271	2021/11/30 13:40:00	67.2	62.6	54.9	57.2	55.5	
276	2021/11/30 13:40:15	52.1	57.4	52.2	49.5	48.4	
281	2021/11/30 13:40:30	46.5	45.6	45.4	45.0	46.9	
286	2021/11/30 13:40:45	53.8	55.9	52.8	49.0	47.0	
291	2021/11/30 13:41:00	47.4	57.9	56.4	56.8	53.7	
296	2021/11/30 13:41:15	55.7	54.3	55.7	52.9	55.0	

Freq Weight : A
 Time Weight : SLOW
 Level Range : 40-100
 Max dB : 68.3 - 2021/11/30 13:53:59
 Level Range : 40-100
 SEL : 77.4
 Leq : 47.9

No.s	Date Time	(dB)					
1	2021/11/30 13:51:50	43.7	43.9	43.8	44.5	45.9	
6	2021/11/30 13:52:05	40.9	38.8	38.7	38.0	38.4	
11	2021/11/30 13:52:20	48.2	47.5	47.8	44.6	45.7	
16	2021/11/30 13:52:35	41.7	43.2	41.2	40.2	39.9	
21	2021/11/30 13:52:50	42.2	42.6	41.3	40.4	41.0	
26	2021/11/30 13:53:05	40.1	39.3	39.9	40.6	40.7	
31	2021/11/30 13:53:20	39.3	40.1	40.1	40.3	43.1	
36	2021/11/30 13:53:35	39.8	38.9	39.3	40.4	45.7	
41	2021/11/30 13:53:50	48.5	59.0	67.9	58.9	54.2	
46	2021/11/30 13:54:05	48.0	47.1	46.4	46.0	45.6	
51	2021/11/30 13:54:20	46.1	47.6	57.2	65.6	57.1	
56	2021/11/30 13:54:35	50.3	46.4	44.3	45.5	42.4	
61	2021/11/30 13:54:50	43.7	47.0	56.4	54.2	48.6	
66	2021/11/30 13:55:05	43.5	41.5	44.4	41.7	42.2	
71	2021/11/30 13:55:20	39.4	38.0	37.8	38.8	41.6	
76	2021/11/30 13:55:35	41.5	37.3	36.8	37.6	37.4	
81	2021/11/30 13:55:50	37.0	40.3	38.2	41.4	41.6	
86	2021/11/30 13:56:05	42.6	41.7	40.8	39.1	39.8	
91	2021/11/30 13:56:20	40.3	41.0	39.2	42.1	40.0	
96	2021/11/30 13:56:35	40.8	42.0	43.2	40.6	41.8	
101	2021/11/30 13:56:50	43.7	41.5	41.4	42.1	44.9	
106	2021/11/30 13:57:05	42.6	40.9	43.2	40.2	39.8	
111	2021/11/30 13:57:20	41.4	40.6	41.5	41.1	40.0	
116	2021/11/30 13:57:35	40.3	41.1	43.2	41.9	42.5	
121	2021/11/30 13:57:50	41.0	41.8	42.1	40.0	39.9	
126	2021/11/30 13:58:05	40.0	41.4	41.3	40.4	39.6	
131	2021/11/30 13:58:20	42.5	42.0	43.1	44.2	43.2	
136	2021/11/30 13:58:35	44.1	43.0	44.6	45.2	46.5	
141	2021/11/30 13:58:50	47.7	46.6	46.6	47.4	48.5	
146	2021/11/30 13:59:05	46.1	44.3	45.0	45.2	43.8	
151	2021/11/30 13:59:20	42.5	42.7	42.7	46.7	45.2	
156	2021/11/30 13:59:35	43.4	42.5	41.6	40.3	40.7	
161	2021/11/30 13:59:50	39.2	39.6	43.9	42.8	43.8	
166	2021/11/30 14:00:05	42.0	41.1	39.6	42.0	44.7	
171	2021/11/30 14:00:20	56.4	57.6	50.2	44.7	43.6	
176	2021/11/30 14:00:35	45.3	44.6	42.2	42.1	41.3	
181	2021/11/30 14:00:50	41.9	40.9	39.3	38.6	41.9	
186	2021/11/30 14:01:05	40.5	40.7	41.1	40.7	41.9	
191	2021/11/30 14:01:20	41.8	43.2	42.6	41.2	41.6	
196	2021/11/30 14:01:35	43.4	47.8	50.7	44.8	43.8	
201	2021/11/30 14:01:50	47.0	48.4	55.3	57.8	52.8	
206	2021/11/30 14:02:05	47.9	46.9	41.2	39.8	41.1	
211	2021/11/30 14:02:20	39.1	39.7	40.9	39.9	40.8	
216	2021/11/30 14:02:35	40.8	42.8	40.5	40.9	40.9	
221	2021/11/30 14:02:50	41.5	43.2	41.6	44.3	42.4	
226	2021/11/30 14:03:05	40.8	39.9	40.2	40.5	42.5	
231	2021/11/30 14:03:20	42.3	42.9	43.5	39.7	37.9	
236	2021/11/30 14:03:35	38.5	41.7	43.7	44.3	44.0	
241	2021/11/30 14:03:50	40.2	41.7	43.0	41.0	40.4	
246	2021/11/30 14:04:05	42.2	41.4	43.9	41.7	41.1	
251	2021/11/30 14:04:20	39.5	40.4	39.0	40.6	38.6	
256	2021/11/30 14:04:35	39.2	39.2	39.3	39.4	39.5	
261	2021/11/30 14:04:50	38.4	38.4	40.0	39.5	39.9	
266	2021/11/30 14:05:05	40.8	40.4	42.4	43.5	41.3	
271	2021/11/30 14:05:20	39.6	40.2	39.8	42.2	40.0	
276	2021/11/30 14:05:35	39.3	38.8	38.5	40.2	40.7	
281	2021/11/30 14:05:50	45.7	44.3	47.7	48.2	45.0	
286	2021/11/30 14:06:05	44.5	43.1	42.9	41.6	45.6	
291	2021/11/30 14:06:20	41.6	41.0	44.3	46.2	43.3	
296	2021/11/30 14:06:35	45.5	49.6	52.2	49.5	45.7	

Freq Weight : A
 Time Weight : SLOW
 Level Range : 40-100
 Max dB : 56.3 - 2021/11/30 12:32:01
 Level Range : 40-100
 SEL : 79.9
 Leq : 50.4

No.s	Date	Time	(dB)					
1	2021/11/30	12:31:18	46.4	46.1	46.4	47.7	47.7	
6	2021/11/30	12:31:33	48.2	47.5	48.6	48.6	48.6	
11	2021/11/30	12:31:48	47.9	48.2	50.6	50.5	52.6	
16	2021/11/30	12:32:03	50.2	48.6	47.9	48.1	48.0	
21	2021/11/30	12:32:18	48.6	48.9	48.7	48.6	49.5	
26	2021/11/30	12:32:33	49.3	49.0	48.9	48.6	48.8	
31	2021/11/30	12:32:48	48.0	47.3	47.3	48.4	49.4	
36	2021/11/30	12:33:03	48.8	47.9	48.1	49.2	49.5	
41	2021/11/30	12:33:18	49.6	48.4	48.1	47.6	47.5	
46	2021/11/30	12:33:33	48.3	48.1	48.1	47.8	48.2	
51	2021/11/30	12:33:48	48.8	49.0	48.5	48.2	48.0	
56	2021/11/30	12:34:03	48.0	49.2	48.4	47.0	47.1	
61	2021/11/30	12:34:18	47.5	46.7	46.9	47.3	46.8	
66	2021/11/30	12:34:33	46.9	47.0	47.0	47.5	47.8	
71	2021/11/30	12:34:48	48.8	49.1	48.4	47.6	48.0	
76	2021/11/30	12:35:03	50.2	48.6	48.5	47.9	48.5	
81	2021/11/30	12:35:18	48.2	49.6	48.9	49.9	48.6	
86	2021/11/30	12:35:33	48.9	49.6	49.3	49.2	49.6	
91	2021/11/30	12:35:48	50.1	49.7	50.7	49.9	49.6	
96	2021/11/30	12:36:03	50.1	49.6	49.4	49.5	50.1	
101	2021/11/30	12:36:18	50.6	50.5	50.1	49.6	50.4	
106	2021/11/30	12:36:33	51.4	50.4	50.4	51.6	51.0	
111	2021/11/30	12:36:48	50.8	51.1	51.4	52.4	52.3	
116	2021/11/30	12:37:03	52.0	50.4	49.6	49.8	49.3	
121	2021/11/30	12:37:18	49.3	49.7	50.7	50.7	50.4	
126	2021/11/30	12:37:33	50.6	50.9	54.2	53.8	52.5	
131	2021/11/30	12:37:48	52.6	52.4	52.8	53.2	51.9	
136	2021/11/30	12:38:03	50.7	50.4	50.7	50.3	50.6	
141	2021/11/30	12:38:18	50.6	50.9	49.9	50.6	50.0	
146	2021/11/30	12:38:33	51.1	55.4	53.3	52.6	51.4	
151	2021/11/30	12:38:48	51.1	51.4	52.6	51.5	49.9	
156	2021/11/30	12:39:03	49.5	50.3	50.5	51.5	50.4	
161	2021/11/30	12:39:18	51.0	50.9	52.5	53.1	51.4	
166	2021/11/30	12:39:33	50.3	51.0	52.7	52.4	51.9	
171	2021/11/30	12:39:48	52.0	52.5	52.3	52.4	51.9	
176	2021/11/30	12:40:03	51.6	52.1	51.1	50.7	51.3	
181	2021/11/30	12:40:18	51.0	50.6	50.9	51.8	52.7	
186	2021/11/30	12:40:33	52.9	52.1	53.0	52.5	52.2	
191	2021/11/30	12:40:48	51.1	50.4	50.6	49.9	50.0	
196	2021/11/30	12:41:03	49.6	50.1	50.8	50.5	52.3	
201	2021/11/30	12:41:18	51.0	50.4	51.1	50.1	49.5	
206	2021/11/30	12:41:33	48.6	48.7	51.4	52.4	52.0	
211	2021/11/30	12:41:48	55.4	53.3	52.9	52.3	51.6	
216	2021/11/30	12:42:03	51.2	51.4	51.9	51.7	52.2	
221	2021/11/30	12:42:18	51.7	50.9	50.1	50.0	50.3	
226	2021/11/30	12:42:33	49.8	49.9	49.8	50.4	51.0	
231	2021/11/30	12:42:48	51.2	50.8	51.6	50.6	49.8	
236	2021/11/30	12:43:03	50.1	50.3	50.7	51.3	51.1	
241	2021/11/30	12:43:18	50.5	51.4	50.4	49.0	49.0	
246	2021/11/30	12:43:33	51.1	51.0	53.5	53.2	53.2	
251	2021/11/30	12:43:48	53.3	54.3	55.6	53.2	52.3	
256	2021/11/30	12:44:03	50.9	50.9	50.8	49.6	49.4	
261	2021/11/30	12:44:18	53.2	50.6	51.1	51.4	50.2	
266	2021/11/30	12:44:33	50.1	50.0	49.5	49.4	49.3	
271	2021/11/30	12:44:48	49.4	49.0	48.6	47.8	47.3	
276	2021/11/30	12:45:03	47.7	48.3	48.8	49.9	50.2	
281	2021/11/30	12:45:18	49.0	48.9	48.9	48.2	48.2	
286	2021/11/30	12:45:33	48.0	47.4	47.7	48.3	48.3	
291	2021/11/30	12:45:48	47.3	48.2	48.0	48.7	49.0	
296	2021/11/30	12:46:03	49.7	49.8	49.9	50.1	51.7	

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	40.0	0.0
Dozer	No	40		81.7	40.0	0.0
Dozer	No	40		81.7	40.0	0.0
Excavator	No	40		80.7	40.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Equipment	Day	Calculated (dBA)		Day	Night	Evening		
			Leq	Lmax			Lmax	Leq	Lmax
	Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax
	Concrete Saw		91.5	84.5	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dozer		83.6	79.6	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dozer		83.6	79.6	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Excavator		82.6	78.7	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		91.5	87.3	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84.0		40.0	0.0
Tractor	No	40	84.0		40.0	0.0
Dozer	No	40		81.7	40.0	0.0
Dozer	No	40		81.7	40.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)		Day Night	Evening			Lmax	
		Lmax	Leq		Lmax	Leq	Lmax		
Equipment									
Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax	
Tractor	N/A	N/A	85.9	82.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	85.9	82.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	83.6	79.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	83.6	79.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	85.9	87.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

NDD Phase 2 Student Housing Residential 65.0 60.0 60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84.0		100.0	0.0
Tractor	No	40	84.0		100.0	0.0
Dozer	No	40		81.7	100.0	0.0
Dozer	No	40		81.7	100.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Day		Calculated (dBA) Evening		Day Night		Evening		
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Tractor			78.0	74.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			78.0	74.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Dozer			75.6	71.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Dozer			75.6	71.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		Total	78.0	79.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84.0		40.0	0.0
Excavator	No	40		80.7	40.0	0.0
Dozer	No	40		81.7	40.0	0.0
Grader	No	40	85.0		40.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Calculated (dBA)				Day		Evening		
	Day	Evening	Evening	Evening	Day	Night	Lmax	Leq	Lmax
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Tractor	N/A	N/A	85.9	82.0	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	82.6	78.7	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	83.6	79.6	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	86.9	83.0	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	86.9	87.2	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

NDD Phase 2 Student Housing Residential 65.0 60.0 60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84.0		100.0	0.0
Excavator	No	40		80.7	100.0	0.0
Dozer	No	40		81.7	100.0	0.0
Grader	No	40	85.0		100.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Calculated (dBA)				Day		Evening		Lmax
		Day	Evening	Evening	Night	Night	Night	Night		
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Tractor	N/A	N/A	78.0	74.0	N/A	N/A	N/A	N/A	N/A	
Excavator	N/A	N/A	74.7	70.7	N/A	N/A	N/A	N/A	N/A	
Dozer	N/A	N/A	75.6	71.7	N/A	N/A	N/A	N/A	N/A	
Grader	N/A	N/A	79.0	75.0	N/A	N/A	N/A	N/A	N/A	
		Total	79.0	79.2	N/A	N/A	N/A	N/A	N/A	

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	315.0	0.0
Tractor	No	40	84.0		315.0	0.0
Tractor	No	40	84.0		315.0	0.0
Tractor	No	40	84.0		315.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)		Day Night	Evening			Lmax	
		Lmax	Leq		Lmax	Leq	Lmax		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Crane		64.6	56.6	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor		68.0	64.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor		68.0	64.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor		68.0	64.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Total	68.0	69.1	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

NDD Phase 2 Student Housing Residential 65.0 60.0 60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	100.0	0.0
Tractor	No	40	84.0		100.0	0.0
Tractor	No	40	84.0		100.0	0.0
Tractor	No	40	84.0		100.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Calculated (dBA)				Day		Evening		Lmax
		Day	Evening	Evening	Night	Night	Lmax	Leq		
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Crane			74.5	66.6	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Tractor			78.0	74.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Tractor			78.0	74.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Tractor			78.0	74.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
		Total	78.0	79.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	40.0	0.0
Paver	No	50		77.2	40.0	0.0
Roller	No	20		80.0	40.0	0.0
Roller	No	20		80.0	40.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)		Day Night	Evening			Lmax	
		Lmax	Leq		Lmax	Leq	Lmax		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Paver			79.2	76.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver			79.2	76.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			81.9	74.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			81.9	74.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	81.9	81.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

NDD Phase 2 Student Housing Residential 65.0 60.0 60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	100.0	0.0
Paver	No	50		77.2	100.0	0.0
Roller	No	20		80.0	100.0	0.0
Roller	No	20		80.0	100.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Calculated (dBA)				Day		Evening		Lmax
		Day	Evening	Evening	Night	Night	Lmax	Leq		
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Paver			71.2	68.2	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Paver			71.2	68.2	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Roller			74.0	67.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Roller			74.0	67.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
		Total	74.0	73.7	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84.0		670.0	0.0
Tractor	No	40	84.0		670.0	0.0
Dozer	No	40		81.7	670.0	0.0
Dozer	No	40		81.7	670.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)		Day Night	Evening			Lmax	
		Lmax	Leq		Lmax	Leq	Lmax		
Equipment									
Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax	
Tractor			61.5	57.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.5	57.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			59.1	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			59.1	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	61.5	62.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

NDD Phase 2 Student Housing Residential 65.0 60.0 60.0

Equipment

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Tractor	No	40	84.0		580.0	0.0
Tractor	No	40	84.0		580.0	0.0
Dozer	No	40		81.7	580.0	0.0
Dozer	No	40		81.7	580.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Day		Calculated (dBA) Evening		Day Night		Evening		
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Tractor			62.7	58.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			62.7	58.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Dozer			60.4	56.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Dozer			60.4	56.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		Total	62.7	63.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/26/2024
 Case Description: RUSD STEM School Grading - T-Mobile

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Park Hill Apartments	Residential	65.0	60.0	60.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84.0		100.0	0.0
Excavator	No	40		80.7	100.0	0.0
Dozer	No	40		81.7	100.0	0.0
Grader	No	40	85.0		100.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)	
Night		Day		Calculated (dBA) Evening		Day Night		Evening			
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Tractor	N/A	N/A	N/A	78.0	74.0	N/A	N/A	N/A	N/A	N/A	
Excavator	N/A	N/A	N/A	74.7	70.7	N/A	N/A	N/A	N/A	N/A	
Dozer	N/A	N/A	N/A	75.6	71.7	N/A	N/A	N/A	N/A	N/A	
Grader	N/A	N/A	N/A	79.0	75.0	N/A	N/A	N/A	N/A	N/A	
			Total	79.0	79.2	N/A	N/A	N/A	N/A	N/A	

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84.0		670.0	0.0
Excavator	No	40		80.7	670.0	0.0
Dozer	No	40		81.7	670.0	0.0
Grader	No	40	85.0		670.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Calculated (dBA)				Day		Evening		
	Day	Evening	Day	Night	Lmax	Leq	Lmax	Leq	Lmax
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Tractor	N/A	N/A	61.5	57.5	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	58.2	54.2	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	59.1	55.1	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	62.5	58.5	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	62.5	62.7	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	670.0	0.0
Tractor	No	40	84.0		670.0	0.0
Tractor	No	40	84.0		670.0	0.0
Tractor	No	40	84.0		670.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)		Day Night	Evening			Lmax	
		Lmax	Leq		Lmax	Leq	Lmax		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Crane		58.0	50.0	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor		61.5	57.5	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor		61.5	57.5	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor		61.5	57.5	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Total	61.5	62.5	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

NDD Phase 2 Student Housing Residential 65.0 60.0 60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	580.0	0.0
Tractor	No	40	84.0		580.0	0.0
Tractor	No	40	84.0		580.0	0.0
Tractor	No	40	84.0		580.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Calculated (dBA)				Day		Evening		Lmax
		Day	Evening	Evening	Night	Night	Lmax	Leq		
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Crane			59.3	51.3	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Tractor			62.7	58.7	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Tractor			62.7	58.7	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Tractor			62.7	58.7	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
		Total	62.7	63.8	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A				

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 05/24/2023
 Case Description: RUSD STEM School Demolition - Electrical Feeder

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Stonehaven Apartments	Residential	65.0	60.0	60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	50.0	5.0
Dozer	No	40		81.7	50.0	5.0
Excavator	No	40		80.7	50.0	5.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Evening	Night	Day	Evening			
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Saw			84.6	77.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			76.7	72.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			75.7	71.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	84.6	79.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	280.0	5.0
Dozer	No	40		81.7	280.0	5.0
Excavator	No	40		80.7	280.0	5.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day Night		Evening		
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Saw	N/A	N/A	69.6	62.6	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	61.7	57.7	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	60.7	56.8	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	69.6	64.6	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 05/24/2023
 Case Description: RUSD STEM School Trenching - Electrical Feeder

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Stonehaven Apartments	Residential	65.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84.0		50.0	5.0
Excavator	No	40		80.7	50.0	5.0
Dozer	No	40		81.7	50.0	5.0

Results

		Noise Limit Exceedance (dBA)				Noise Limits (dBA)				
Night	Equipment	Day		Calculated (dBA)		Day Night		Evening		Lmax
		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
	Tractor			79.0	75.0	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Excavator			75.7	71.7	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dozer			76.7	72.7	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total			79.0	78.1	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Baselines (dBA)

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 05/24/2023
 Case Description: RUSD STEM School Infrastructure Install - Electrical Feeder

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Stonehaven Apartments	Residential	65.0	60.0	60.0

Estimated Shielding Description (dBA)	Equipment		Spec	Actual	Receptor
	Impact Device	Usage (%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)
Generator (<25KVA, VMS signs) 5.0	No	50		72.8	50.0
Man Lift 5.0	No	20		74.7	50.0
Tractor 5.0	No	40	84.0		50.0

Results						Noise Limits			
(dBA)		Noise Limit Exceedance (dBA)							
		Calculated (dBA)		Day		Evening			
Night		Evening		Night					
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Generator (<25KVA, VMS signs) N/A	N/A	67.8	64.8	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift N/A	N/A	69.7	62.7	N/A	N/A	N/A	N/A	N/A	N/A
Tractor N/A	N/A	79.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A

N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Total	79.0	75.6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Falkirk Apartments	Residential	55.0	50.0	50.0

Estimated Shielding Description (dBA)	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Generator (<25KVA, VMS signs) 5.0	No	50	72.8	72.8	280.0
Man Lift 5.0	No	20	74.7	74.7	280.0
Tractor 5.0	No	40	84.0	84.0	280.0

Results

(dBA)		Noise Limit Exceedance (dBA)				Noise Limits	
		Calculated (dBA)		Day Night		Evening	
		Evening		Night			
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Generator (<25KVA, VMS signs) N/A	N/A	52.8	49.8	N/A	N/A	N/A	N/A
Man Lift N/A	N/A	54.7	47.7	N/A	N/A	N/A	N/A
Tractor N/A	N/A	64.0	60.1	N/A	N/A	N/A	N/A

N/A	N/A	N/A	Total N/A	64.0 N/A	60.7 N/A	N/A N/A	N/A N/A	N/A	N/A
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Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 05/24/2023
 Case Description: RUSD STEM School Paving - Electrical Feeder

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Stonehaven Apartments	Residential	65.0	60.0	60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	50.0	5.0
Roller	No	20		80.0	50.0	5.0
Roller	No	20		80.0	50.0	5.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Calculated (dBA)				Day		Evening		Lmax
	Day	Evening		Day	Night	Lmax	Leq		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Paver	N/A	N/A	72.2	69.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	N/A	N/A	75.0	68.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	N/A	N/A	75.0	68.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	75.0	73.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Baselines (dBA)

Model CSSB-2 Construction Site Sound Blankets



129 Penn St, Westfield, IN 46074
Phone 888.213.4711 Fax 317-774-1911

Product Features:

- Weatherproof
- Outdoor use/Sheds water
- 2" thick, quilted exterior rated facing
- Grommets for easy attachment to a fence
- STC-21, estimated 10-20 decibel reduction
- In-stock option for quick ship



eNoise Control's Construction Site Sound Blankets are used to block noise on construction sites, drilling sites, compressor stations, and other outdoor noise sources. Our Model CSSB-2 consists of a UV resistant, heavy duty 10 ounce per square yard vinyl coated polyester (VCP) facing on both sides of a nominal 2" thick quilted fiberglass. Sound Blankets are constructed with grommets and sewn with Gore Tenara exterior grade thread for maximum longevity. The sound blankets can simply be zip-tied to your existing chain link perimeter fence, wood fence, jersey barrier fencing, or support framing.

Specification:

Supply weatherproof, exterior-rated quilted sound blankets for sound barrier and visual barrier at construction site perimeter. Material shall be nominal 2" thick, diamond stitched UV resistant 10 ounce per square yard vinyl coated polyester (VCP) faced both sides. Sewn using exterior-rated Gore Tenara thread. Grommets integrated into blankets for securing to job site fencing. Minimum STC-21 rating. Minimum NRC-0.75 rating. Secure blankets with no visual gaps at joints and tight to ground level, complying to manufacturers installation guidelines. Use Model CSSB-2, Construction Site Sound Blanket manufactured by eNoise Control, 129 Penn St, Westfield, IN 46074, 888.213.4711, info@enoisecontrol.com.



Technical Data:

Facing	UV resistant, weather proof VCP both sides
Thickness	Nominal 2.00" [1.5" post fabrication]
Standard Width	48"
Weight	0.50 lb-psf
Temperature Range	-40° to +180°F
Sound Data Summary	STC-21, NRC-0.75

SOUND ABSORPTION (ASTM C-423)						
125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
.46	.94	.85	.64	.47	.33	.75

SOUND TRANSMISSION LOSS (ASTM E-90 & E-413)						
125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	STC
9	14	19	21	27	34	21



TRANE

Global Unitary Systems

QuietCurb™

What is QuietCurb™ ?



An innovative "Quiet Comfort" option

The **QuietCurb™** is an acoustically-engineered roof curb product which further enhances the Trane IntelliPak by **reducing operating sound power levels**. In some sizes, the Trane rooftop, with the **QuietCurb** accessory, is as much as 18 NC lower than the equivalent size competitive model! Read on and COMPARE.



TRANE

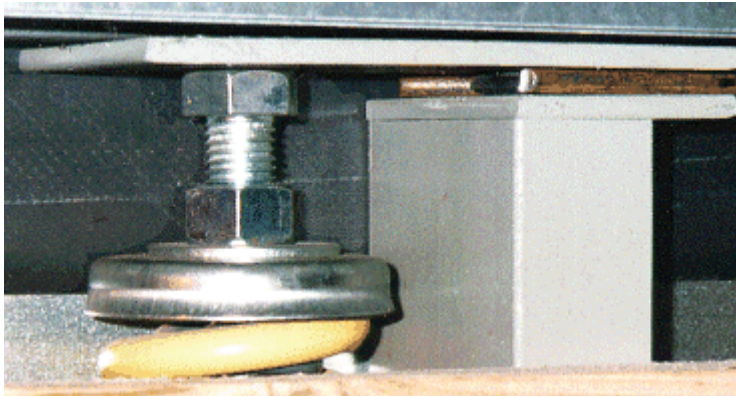
Unitary Products Group

QuietCurb™

How Does it Work?

Addresses the Three Major Components of Rooftop Generated Sound

The curb prevents regenerated noise (vibratory noise resulting from the transmission of sound from a turbulent fluid or mechanical source) through the use of an integral spring-vibration isolation rail. [Installer's Guide](#)



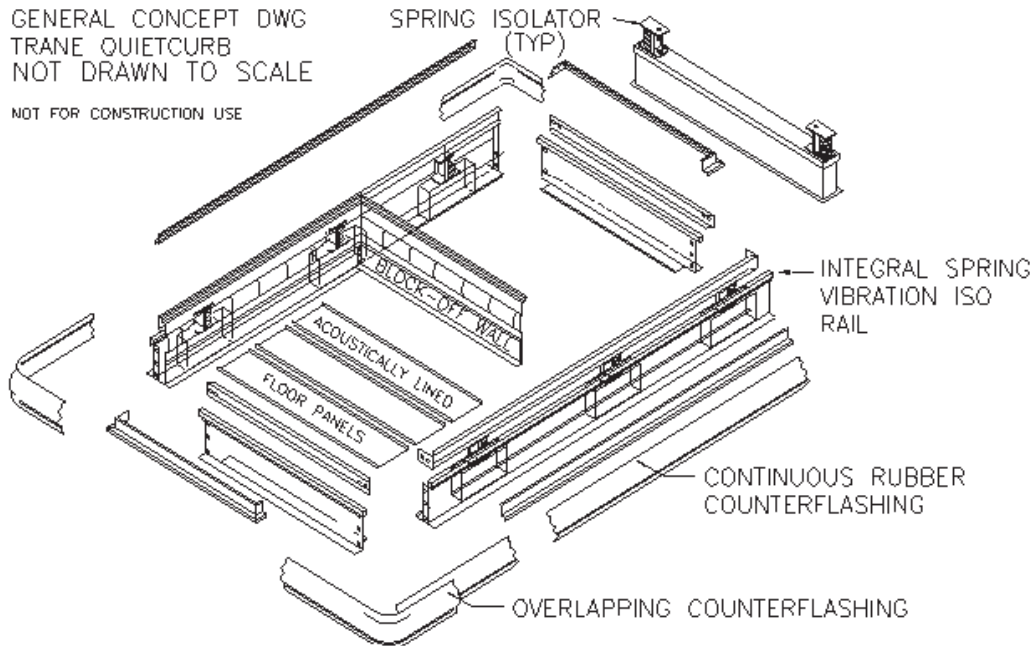
High frequency components of rooftop noise are absorbed by the High density insulation lining the interior of the curb.





QuietCurb™

Low frequency noise is reduced / eliminated through the use of a unique air flow path-plenum design which reduces air turbulence and permits the low frequency noise to "break out" above the roof line before entering the building.



What products can QuietCurb™ be applied to?

IntelliPak™ Packaged Rooftops

The entire line of 20 - 130 ton IntelliPak packaged rooftops and roof-mounted air handling products which have the extended ("X-casing") design, i.e. all SX (extended casing-cooling only), SF (cooling with gas heat), SS (cooling with steam heat), SL (cooling with hot water heat), and SE (cooling with electric heat) models. The curb is not available for SA models (this is because the SA model rooftops should never be chosen for applications where noise is a concern - they are typically up to 6 dB louder than the equivalent extended-casing model)



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QuietCurb™

Features & Benefits

Up to 18 NC quieter than competitive offerings.

Easy and quick to install curb ships fully assembled.

Spring isolated curb with special air flow plenum design addresses all major components of rooftop generated noise.

Seismic option available to meet seismic criteria in most regions of the U.S.

Applicable to IntelliPak packaged rooftops and air handlers and, C & E-style units which are design sequence "P" and "H" or higher respectively.

Quick production cycle curb cycle is 2 - 4 weeks.

Product Positioning

Sound Sensitive Applications - always apply QuietCurb.

Potentially Sound Sensitive Applications - QuietCurb is strongly recommended with extended casing models (SE, SF, SL, SS & SX) should be utilized.

Sound is Not a Concern - the lower cost SA model may be bid



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QuietCurb™

in lieu of an SX. Keep in mind that utilization of the SA usually results in about 6 dB sound penalty - versus an SX.

Selling Strategy

Actual Test Results - confirm that QuietCurb is a real solution producing real quiet comfort results.

Octave Band Sound Power Level Data - is provided to document the acoustical performance of QuietCurb.

Factory Assembly - minimizes field labor time and expense and assures the customer that he/she will get consistent, repeatable results each time QuietCurb is applied.

Patent Pending Design - QuietCurb is a unique development in quiet comfort technology which is easily differentiable from field-fabricated/other competitive solutions.



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QuietCurb™

How Do I Order the QuietCurb

QuietCurb model numbers and pricing are available through the LYNX™ Productivity Suite. The curbs are build-to-order and have a 2-4 week production cycle

WHEN ENTERING THE ORDER YOU MUST INCLUDE THE PRODUCT CODE (394), QUANTITY, AND ASSOCIATED SPECIFIC CURB MODEL NUMBER(S).

The QuietCurb model number nomenclature is shown on the following page.

Stock or Build-to-order (BTO)?

Note: Curbs are **build-to-order** items only, just as the large rooftop products are. However, the curbs will be available on a shorter 2-4 week production cycle.

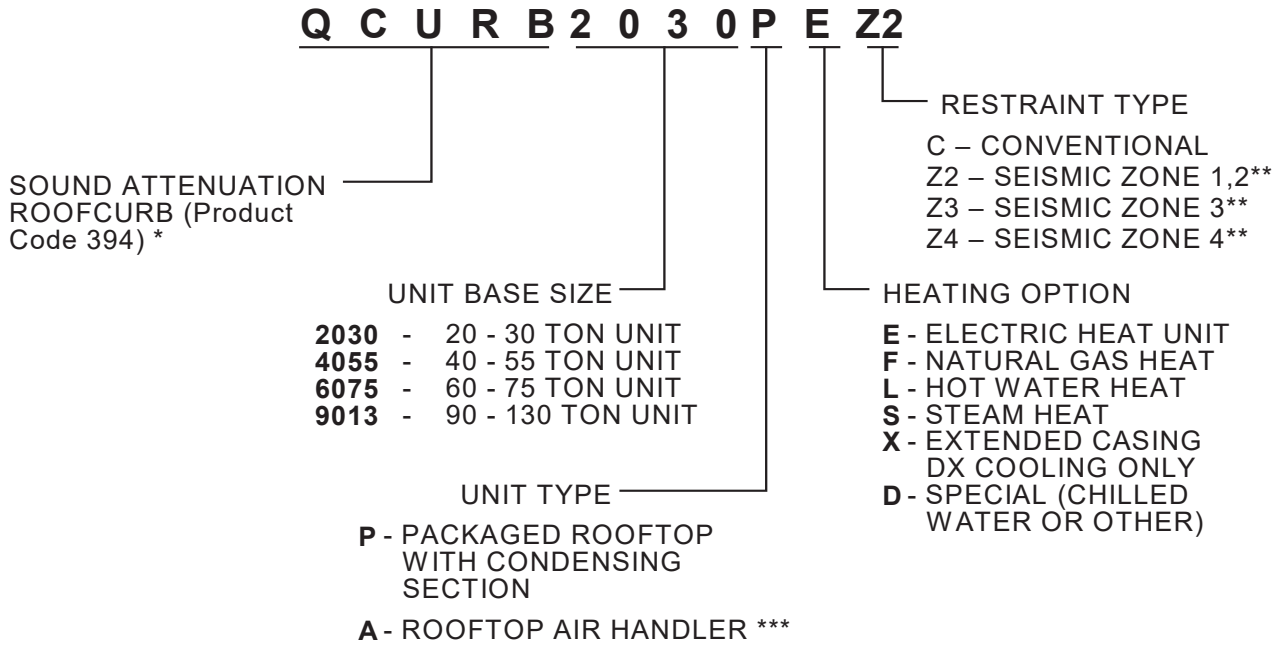
Call the Customer Service-Order Entry team at 1-800-235-9226 for assistance.



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** A full set of stamped calculations that are prepared by professional engineers for a specific project, in its specific seismic region, may be obtained by adding a "J" as the last digit of the ordering number. (Example: QCURB2030ADZ2J for a zone 2 seismic curb with job specific calculations). For more information, contact ThyBar Corp. at 1-800-666-CURB.

*** If a chilled water air handler is ordered the complete model number must be provided to identify coil type chosen / coordinate thru-the-curb piping locations.



QuietCurb™ Applications

Frequency Inverters

Variable Frequency Drives (VFD) or frequency inverters are recommended for air flow modulation (versus inlet guide vanes or discharge dampers) where noise is a concern. Testing on the 40 ton unit has shown that inverters modulate air flow more quietly than damper controls. On the 40 ton unit, NC levels dropped as low as NC-26 - well below normal background noise when an inverter was applied.

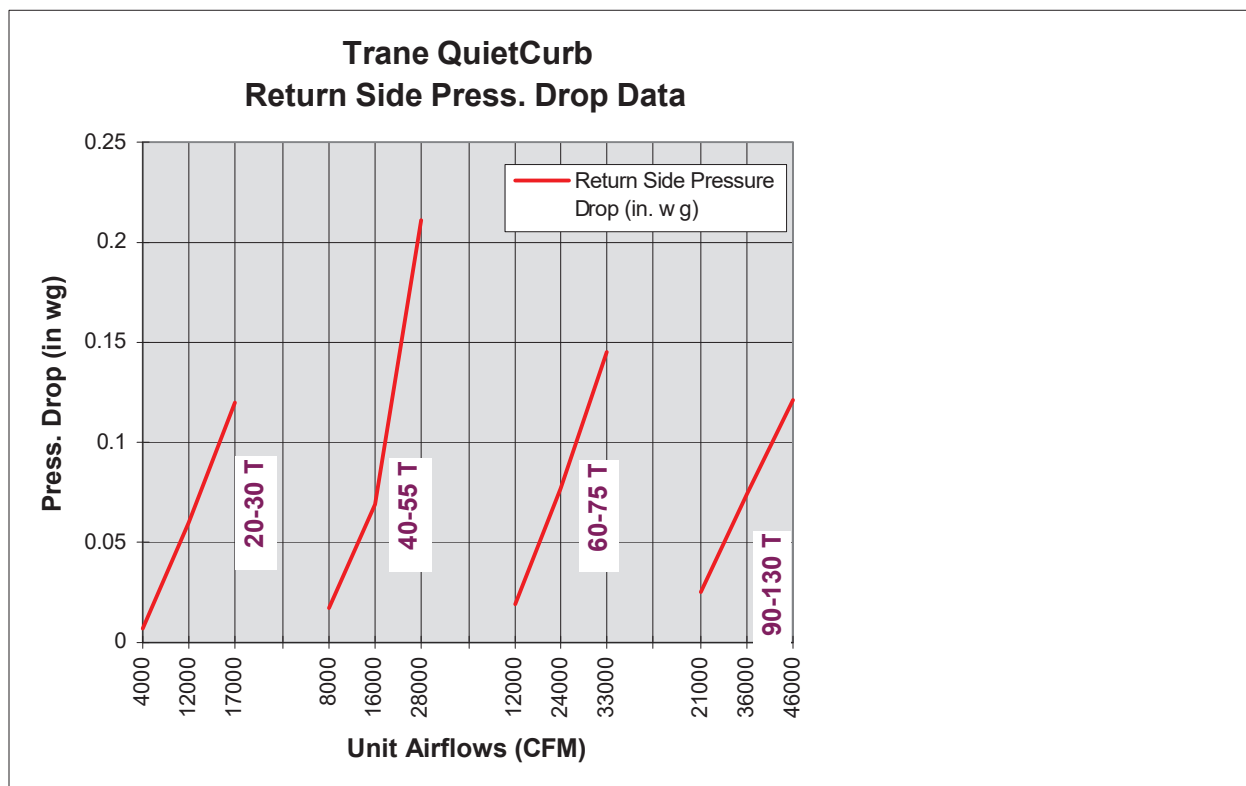
Flexible Connections

When applying the **QuietCurb™** it is of utmost importance that all rigid connections to the unit (i.e hot water piping, chilled water piping, steam piping, natural gas piping, electrical conduit...etc.) integrate a flexible loop or coupling connector to allow the spring isolators in the curb to "free float". Any rigid connections to the unit will negate the benefit of the spring curb causing it to "short circuit" transmitting vibration through the rigid connections to the building structure.

USE FLEXIBLE TRANSITIONS OR COUPLINGS AT THE ROOFTOP TO AVOID REGENERATED NOISE PROBLEMS.

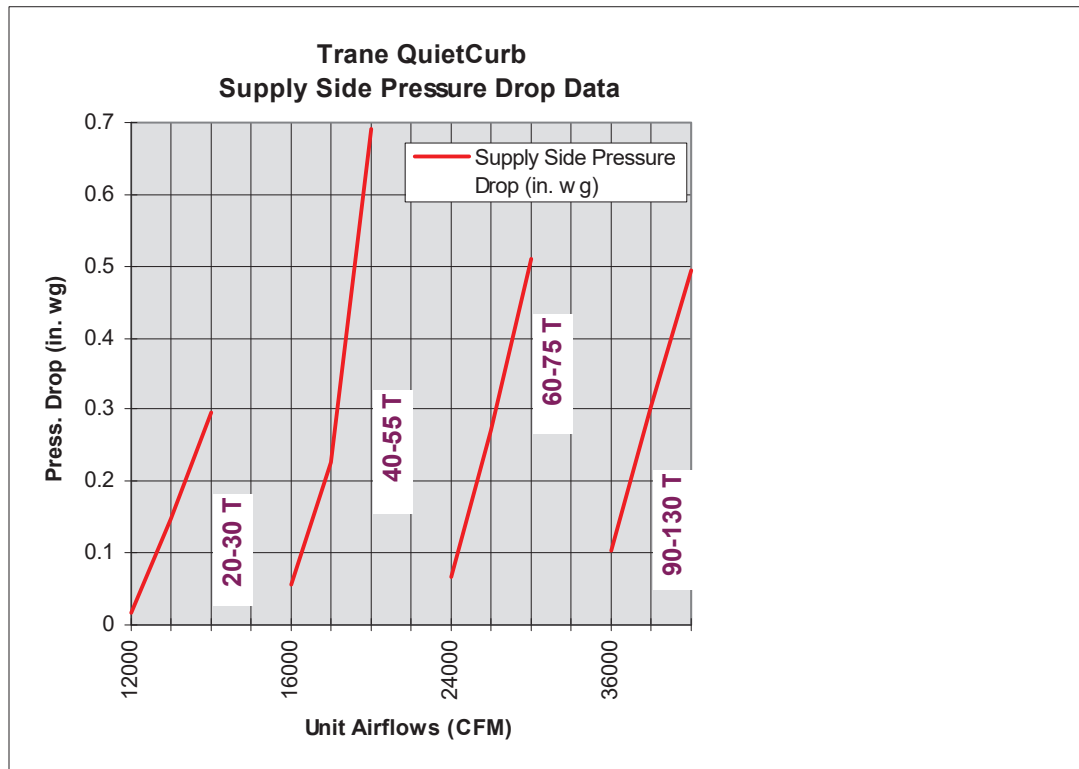
Trane Quiet Curb Return Side Pressure Drop Data

	Unit Airflow CFM	Return Side Pressure Drop (in. wg)	Supply Side Pressure Drop (in. wg)	Total Curb Pressure Drop (in. Wg)
20 - 25 - 30	4000	0.007	0.016	0.023
	12000	0.06	0.147	0.207
	17000	0.12	0.295	0.415
40 - 50 - 55	8000	0.017	0.057	0.074
	16000	0.069	0.226	0.295
	28000	0.211	0.693	0.904
60 - 70 - 75	12000	0.019	0.068	0.087
	24000	0.077	0.27	0.347
	33000	0.145	0.511	0.656
90 - 105 - 115 - 130	21000	0.025	0.103	0.128
	36000	0.074	0.303	0.377
	46000	0.121	0.494	0.616



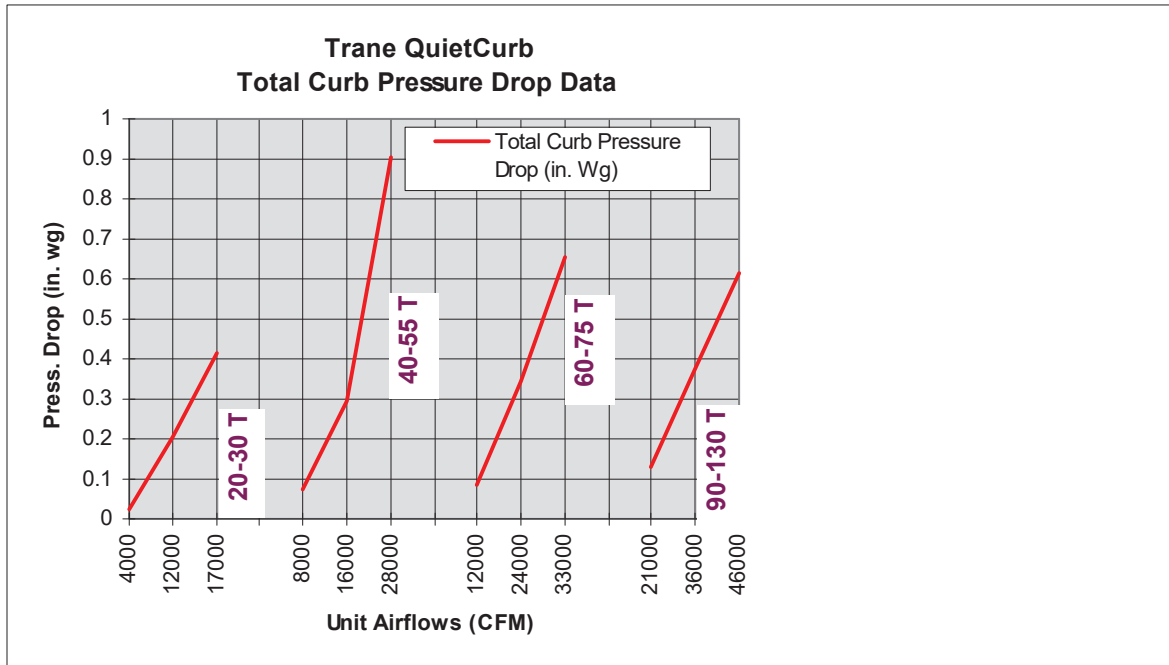
Trane QuietCurb Supply Side Pressure Drop

	Unit Airflow CFM	Supply Side Pressure Drop (in. wg)
20 - 25 - 30	4000	0.016
	12000	0.147
	17000	0.295
40 - 50 - 55	8000	0.057
	16000	0.226
	28000	0.693
60 - 70 - 75	12000	0.068
	24000	0.27
	33000	0.511
90 - 105 - 115 - 130	21000	0.103
	36000	0.303
	46000	0.494



Trane QuietCurb Total Curb Pressure Drop

	Unit Airflow CFM	Total Curb Pressure Drop (in. Wg)
20 - 25 - 30	4000	0.023
	12000	0.207
	17000	0.415
40 - 50 - 55	8000	0.074
	16000	0.295
	28000	0.904
60 - 70 - 75	12000	0.087
	24000	0.347
	33000	0.656
90 - 105 - 115 - 130	21000	0.128
	36000	0.377
	46000	0.616



For standard curb sound data, see RT-EB-80.

COMMERCIAL PACKAGED ROOFTOP WITH QUIETCURB SX, SF, SE, SL, SS 20 & 25 Ton Supply Fan - Sound Power Levels

Discharge Lw, dB

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K
5000	1.5	872	80	71	58	54	51	48	44	42	73	68	61	58	55	54	47	43
5000	2	1000	82	74	61	56	54	50	47	46	76	71	64	60	58	57	50	47
5000	2.5	1109	84	76	63	58	56	52	49	48	77	73	65	62	61	60	53	50
5000	3	1206	85	77	65	58	57	53	51	50	79	74	67	63	62	61	55	52
5000	3.5	1293	87	79	66	60	58	54	52	51	81	76	69	64	64	63	56	54
5000	4	1374	88	80	68	61	59	55	53	52	82	77	70	65	65	64	58	55
5000	4.5	1449	90	81	69	62	60	56	54	53	83	78	71	67	66	65	59	57
5000	5	1519	91	82	69	62	61	57	55	54	85	79	72	67	67	66	60	58
5000	5.5	1585	91	83	70	63	62	57	56	55	86	80	73	68	68	67	61	59
5000	6	1648	92	84	71	64	62	58	56	56	86	81	74	69	68	68	62	60
7000	1.5	892	80	72	59	55	53	49	46	43	73	68	62	59	57	56	47	43
7000	2	1018	82	75	62	57	55	52	49	47	75	71	64	61	60	59	50	47
7000	2.5	1131	84	77	64	58	57	53	51	49	77	73	66	63	62	61	53	50
7000	3	1233	86	79	66	60	59	54	53	51	79	75	68	64	64	63	55	52
7000	3.5	1327	87	80	67	61	60	56	54	52	81	76	69	66	65	64	57	54
7000	4	1413	89	81	69	62	61	57	55	54	82	78	71	67	66	65	58	55
7000	4.5	1493	90	82	70	63	62	58	56	55	84	79	72	68	67	66	59	56
7000	5	1567	91	83	71	64	63	59	57	56	85	80	73	69	68	67	60	58
7000	5.5	1638	92	84	72	65	64	60	58	57	86	81	74	70	69	68	61	59
9000	1.5	928	81	73	61	57	54	51	49	45	74	69	63	60	58	57	48	44
9000	2	1038	82	75	63	58	57	53	51	48	75	71	65	62	61	59	51	47
9000	2.5	1151	84	78	65	60	59	54	53	50	77	73	66	64	63	62	53	50
9000	3	1252	86	79	67	61	60	56	54	52	79	75	68	65	65	63	55	52
9000	3.5	1344	88	81	68	62	61	57	55	53	81	77	70	67	66	65	57	53
9000	4	1431	89	82	69	63	62	58	56	54	82	78	71	68	67	66	58	55
9000	4.5	1514	90	83	70	65	63	59	57	55	83	79	72	69	68	67	59	56
9000	5	1591	91	84	71	65	64	60	58	56	85	80	73	70	69	68	61	57
11000	2	1088	83	77	65	60	58	54	53	49	76	72	65	63	62	61	52	48
11000	2.5	1181	85	79	66	61	60	56	54	51	77	74	67	65	64	62	54	50
11000	3	1271	86	80	67	62	61	57	55	52	79	76	69	66	65	64	55	52
11000	3.5	1364	88	81	69	63	62	58	56	54	81	77	70	67	67	65	57	53
11000	4	1452	89	83	70	64	63	59	57	55	82	78	71	68	68	67	58	55
11000	4.5	1533	90	84	71	65	64	60	58	56	83	80	73	70	69	68	60	56
11000	5	1609	92	85	72	66	65	61	59	57	84	81	74	70	70	69	61	57

EXHAUST FAN ----- Sound Power Levels

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K
4000	0.5	538	71	63	59	54	51	45	42	38
4000	1	730	74	67	64	60	57	54	51	46
4000	1.5	882	76	70	67	63	61	60	57	51
6000	0.5	570	71	64	61	57	53	48	44	40
6000	1	765	74	68	66	62	60	56	53	48
6000	1.5	912	76	71	69	65	63	62	59	53
8000	0.5	619	72	65	63	59	56	51	48	43
8000	1	797	74	69	67	64	61	58	56	50
8000	1.5	947	77	72	70	68	65	63	61	55
10000	0.5	712	73	68	66	63	60	56	53	48
10000	1	837	75	70	68	66	63	60	58	52
10000	1.25	911	76	72	70	67	65	63	60	55

**COMMERCIAL PACKAGED ROOFTOP WITH QUIET ROOFCURB
SX, SF, SE, SL, SS 30 Ton Supply Fan - Sound Power Levels**

Discharge Lw, dB

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K		63	125	250	500	1K	2K	4K	8K
8000	1.5	744	82	73	60	56	53	51	47	44		76	70	64	61	57	56	49	45
8000	2	857	85	76	63	59	55	53	50	47		79	73	67	63	60	59	52	48
8000	2.5	955	87	78	66	60	58	55	52	50		81	75	68	65	63	62	55	51
8000	3	1041	88	80	68	61	59	56	54	52		82	77	70	66	65	64	57	54
8000	3.5	1117	90	82	69	63	61	57	55	54		84	78	71	67	66	65	59	56
8000	4	1186	91	83	70	64	62	58	56	55		85	79	72	68	67	66	60	57
8000	4.5	1251	92	84	71	65	63	59	57	56		86	81	73	69	68	67	61	59
8000	5	1311	93	85	72	66	64	60	58	57		87	82	74	70	69	68	62	60
8000	5.5	1368	94	86	73	66	65	61	59	58		88	83	75	71	70	69	63	61
12000	1.5	760	83	74	61	57	55	52	49	45		76	71	65	62	59	58	49	44
12000	2	866	85	77	64	60	57	54	51	48		78	73	67	64	62	60	52	48
12000	2.5	964	87	79	66	61	59	55	54	51		80	76	69	66	64	63	55	51
12000	3	1053	88	81	68	63	61	57	55	53		82	77	70	67	66	65	57	53
12000	3.5	1136	90	83	70	64	63	59	57	55		83	79	72	68	68	66	59	55
12000	4	1213	91	84	71	66	64	60	58	56		85	80	73	69	69	68	60	57
12000	4.5	1286	92	85	73	67	65	61	59	58		86	81	74	71	70	69	62	58
12000	5	1354	94	86	74	68	66	62	60	59		87	82	75	72	71	70	63	60
13500	1.5	779	83	75	62	59	55	53	50	46		76	71	65	63	60	58	49	45
13500	2	875	85	77	64	60	57	55	52	49		78	74	67	65	62	61	52	48
13500	2.5	969	87	79	67	61	59	56	54	51		80	76	69	66	64	63	55	51
13500	3	1057	88	81	69	63	61	58	56	53		81	77	70	67	66	65	57	53
13500	3.5	1138	90	83	70	65	63	59	57	55		83	79	72	69	68	67	59	55
13500	4	1215	91	84	72	66	65	60	59	57		84	80	73	70	69	68	60	57
13500	4.5	1288	92	85	73	67	66	61	60	58		86	81	74	71	70	69	62	58
13500	5	1357	94	86	74	68	67	62	61	59		87	83	75	72	71	70	63	59

EXHAUST FAN ----- Sound Power Levels

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K
6000	0.5	570	71	64	61	57	53	48	44	40
6000	1	765	74	68	66	62	60	56	53	48
6000	1.75	975	78	73	70	67	65	64	61	55
8000	0.5	619	72	65	63	59	56	51	48	43
8000	1	797	74	69	67	64	61	58	56	50
8000	1.75	1013	78	74	72	69	67	65	63	57
10000	0.5	712	73	68	66	63	60	56	53	48
10000	1	837	75	70	68	66	63	60	58	52
10000	1.75	1045	79	74	73	71	69	67	64	58
12000	0.5	806	74	70	68	66	63	61	58	53
12000	1	905	75	72	70	68	65	64	61	55
12000	1.25	956	76	73	71	69	67	65	62	57

**COMMERCIAL PACKAGED ROOFTOP WITH QUIETCURB
SX, SF, SE, SL, SS 40, 50, & 55 Ton Supply Fan - Sound Power Levels**

Discharge Lw, dB

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K
12000	2	787	86	77	64	60	56	54	50	48	81	75	68	64	60	59	54	50
12000	2.5	876	88	80	67	62	58	55	53	51	83	77	70	66	63	62	56	53
12000	3	956	89	81	69	63	60	57	54	53	84	79	71	67	65	64	59	55
12000	3.5	1030	91	83	71	64	62	58	56	55	85	80	72	68	66	65	60	57
12000	4	1098	92	84	72	66	62	59	57	56	87	81	73	69	67	67	62	59
12000	4.5	1160	93	85	73	67	63	60	58	57	88	82	75	71	68	68	63	60
18000	1.5	725	85	77	64	60	56	54	50	47	79	73	66	64	59	58	52	47
18000	2	812	87	79	66	62	58	55	52	50	81	75	68	66	62	61	54	50
18000	2.5	893	88	80	68	63	59	57	54	52	82	77	70	67	64	63	57	53
18000	3	969	89	82	70	64	61	58	56	54	84	79	71	68	66	64	59	55
18000	3.5	1042	91	84	71	65	62	59	57	55	85	80	73	69	67	66	60	57
18000	4	1110	92	85	72	67	63	60	58	57	86	82	74	70	68	67	62	59
20000	2	857	88	81	68	64	59	58	55	52	82	77	69	67	63	62	56	51
20000	2.5	929	89	82	69	65	61	58	56	53	83	78	71	68	65	64	58	53
20000	3	998	90	83	71	66	62	59	58	55	84	80	72	69	67	65	59	55
20000	3.5	1064	91	85	72	67	64	60	59	56	85	81	73	70	68	67	61	57
20000	4	1128	92	86	73	68	65	61	60	58	86	82	74	71	69	68	62	59
24000	2	926	89	83	71	67	62	60	58	55	84	78	70	69	65	63	58	53
24000	2.5	983	90	84	72	67	63	61	59	56	84	79	72	69	67	65	59	55
24000	3	1043	91	85	73	68	64	61	60	57	85	80	73	70	68	67	60	56
24000	3.5	1102	92	86	73	69	65	62	60	58	86	82	74	71	69	68	61	58
24000	4	1161	93	87	74	69	66	63	61	59	87	83	75	72	70	69	63	59

EXHAUST FAN ----- Sound Power Levels

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K
9000	0.5	499	76	67	63	61	57	51	47	43
9000	1	618	78	70	67	65	62	57	53	49
9000	1.75	812	80	75	72	70	67	65	62	57
12000	0.5	496	75	67	64	62	58	51	48	44
12000	1	628	78	71	68	66	63	58	55	50
12000	1.75	817	80	75	73	71	68	66	63	58
15000	0.5	567	76	70	67	65	62	56	53	49
15000	1	667	78	72	70	68	65	60	57	53
15000	1.75	824	80	75	73	72	69	66	64	58
18000	0.5	642	78	72	69	68	65	61	58	53
18000	1	724	79	74	71	70	67	63	61	56
18000	1.75	856	80	76	74	73	71	68	65	60

**COMMERCIAL PACKAGED ROOFTOP WITH QUIETCURE
SX, SF, SE, SL, SS 60, 70, & 75 Ton Supply Fan - Sound Power Levels**

Discharge Lw, dB

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K
18000	1.5	633	84	80	65	60	55	53	51	48	79	73	66	63	58	57	52	48
18000	2	718	87	82	67	62	56	54	53	50	82	76	69	65	60	59	55	51
18000	2.5	791	88	84	69	64	58	56	55	52	83	78	70	67	62	62	57	53
18000	3	855	90	85	71	65	59	57	56	54	84	79	72	68	64	63	59	56
18000	3.5	913	91	87	72	66	61	58	57	56	86	81	73	69	65	65	61	58
18000	4	966	92	88	73	67	62	59	58	57	86	82	74	70	67	66	62	59
18000	4.5	1016	92	89	74	67	63	59	59	58	87	83	75	71	68	67	63	61
18000	5	1063	93	90	75	68	64	60	60	59	88	84	76	72	69	68	64	62
18000	5.5	1107	94	90	76	69	64	61	61	60	89	85	77	72	69	69	65	63
24000	1.5	659	85	81	66	63	56	54	53	49	80	74	67	64	59	58	53	48
24000	2	746	87	84	69	64	57	56	55	52	82	77	69	67	62	61	55	51
24000	2.5	821	89	85	71	65	60	58	57	54	84	79	71	68	64	63	58	54
24000	3	889	90	87	72	67	62	59	58	56	85	80	72	69	65	65	60	56
24000	3.5	951	91	88	74	68	63	60	60	58	86	81	74	70	67	66	61	58
24000	4	1008	92	89	75	69	64	61	61	59	87	83	75	71	68	67	63	60
24000	4.5	1060	93	90	76	70	65	62	61	60	88	84	76	72	69	68	64	61
24000	5	1109	94	91	77	71	66	62	62	61	89	85	77	73	70	69	65	62
28000	2	763	88	84	70	65	59	58	56	53	82	77	70	67	62	61	56	51
28000	2.5	839	89	86	72	67	61	58	58	55	84	79	72	69	65	63	58	54
28000	3	907	90	88	73	68	62	60	59	57	85	81	73	70	66	65	60	56
28000	3.5	969	92	89	75	69	64	61	61	58	86	82	74	71	68	67	62	58
28000	4	1028	93	90	76	70	65	62	62	60	87	83	75	72	69	68	63	60
28000	4.5	1082	94	91	77	71	66	63	63	61	88	84	76	73	70	69	64	61
32000	2	802	89	86	72	67	61	59	58	55	84	78	71	69	64	62	57	52
32000	2.5	858	90	87	72	68	62	60	59	56	84	80	72	70	65	64	59	54
32000	3	924	91	89	74	69	63	61	61	58	85	81	73	71	67	66	60	57
32000	3.5	988	92	90	75	70	65	62	62	59	86	82	74	72	68	67	62	58
32000	4	1046	93	91	76	71	66	63	63	60	88	84	75	73	70	68	63	60
32000	4.5	1100	94	92	77	72	67	64	64	61	89	85	77	74	71	70	65	61

**EXHAUST FAN ----- Sound Power Levels
Return Lw, dB**

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K
12000	0.5	423	73	66	60	57	53	52	49	43
12000	1	572	79	73	67	65	61	60	57	51
12000	1.75	740	84	78	73	71	68	66	63	57
18000	0.5	516	78	72	66	64	60	59	57	51
18000	1	607	81	75	69	67	63	62	59	53
18000	1.75	766	85	80	74	72	69	67	64	58
21000	0.5	578	81	75	69	67	64	63	60	55
21000	1	647	82	77	71	69	65	64	61	55
21000	1.75	781	86	80	75	72	69	68	65	59
27000	0.5	711	86	81	75	73	70	69	67	62
27000	1	761	86	81	75	73	70	69	66	61
27000	1.75	844	88	83	77	74	71	70	67	62

**COMMERCIAL PACKAGED ROOFTOP WITH QUIETCURB
SX, SF, SE, SL, SS 90 Ton Supply Fan - Sound Power Levels**

Discharge Lw, dB

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K		63	125	250	500	1K	2K	4K	8K
27000	2.5	992	85	80	71	66	61	55	51	46		79	73	72	64	58	58	58	47
27000	3	1053	86	80	73	68	61	56	53	48		79	74	74	65	59	59	59	48
27000	3.5	1111	87	81	74	68	62	56	54	49		80	74	75	66	60	60	59	49
27000	4	1167	87	82	76	69	64	57	55	50		80	75	77	67	62	61	60	50
27000	4.5	1223	88	83	77	70	65	58	56	52		81	76	78	68	63	62	60	50
27000	5	1277	89	84	78	71	66	59	57	53		82	77	79	69	64	63	61	51
27000	5.5	1330	91	85	79	72	66	60	58	54		83	78	81	71	65	64	61	52
27000	6	1382	92	86	81	73	67	61	59	55		84	79	82	72	66	64	62	53
27000	6.5	1434	93	87	82	74	68	62	60	56		84	80	83	73	67	65	62	54
37000	2.5	1156	87	83	77	71	65	57	55	50		80	75	77	67	62	60	59	49
37000	3	1204	87	83	78	72	66	58	56	51		80	76	78	68	63	61	60	49
37000	3.5	1253	88	83	79	73	66	59	57	52		81	76	79	69	63	62	60	50
37000	4	1300	88	84	80	73	67	60	58	53		81	77	80	70	64	63	60	51
37000	4.5	1343	89	84	80	74	68	61	58	54		82	77	81	70	65	63	61	51
37000	5	1386	90	85	81	74	68	61	59	55		82	78	82	71	66	64	61	52
37000	5.5	1431	90	85	82	75	69	62	60	56		83	78	82	72	67	64	61	53
37000	6	1475	91	86	83	76	70	62	61	57		83	79	83	73	67	65	61	54
37000	6.5	1517	92	87	84	76	71	63	61	58		84	79	84	73	68	65	62	54
45000	2.5	1302	88	85	81	75	69	61	58	54		81	77	80	70	65	63	60	51
45000	3	1348	89	85	82	76	70	62	59	55		82	77	81	71	66	63	61	51
45000	3.5	1390	89	86	83	76	70	62	60	56		82	78	82	72	66	64	61	52
45000	4	1430	90	86	83	77	71	62	60	56		82	78	83	72	67	64	61	53
45000	4.5	1470	90	86	84	77	71	63	61	57		83	79	83	73	67	65	61	53
45000	5	1509	91	87	85	78	72	63	61	58		83	79	84	73	68	65	61	54
45000	5.5	1549	91	87	86	78	73	64	62	59		84	80	85	74	69	65	61	54
45000	6	1587	92	87	87	79	73	64	63	59		84	80	86	74	69	66	62	55

EXHAUST FAN ----- Sound Power Levels

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K
27900	0.25	520	83	76	73	70	68	71	68	61
27900	0.75	580	84	76	73	71	69	69	65	59
27900	1.5	690	87	79	76	74	72	70	65	59
27900	2.5	800	91	82	78	76	75	73	68	62
35100	0.25	630	88	81	78	77	75	75	71	63
35100	0.75	690	88	81	78	77	75	73	69	61
35100	1.5	770	91	82	79	78	77	74	69	62
35100	2.5	880	94	85	81	80	79	76	71	64
41400	0.25	745	93	85	83	82	80	80	76	67
41400	0.75	780	92	84	82	81	79	77	73	65
41400	1.5	860	94	85	83	82	81	78	73	66
41400	2.5	950	96	87	84	84	82	78	72	65

**COMMERCIAL PACKAGED ROOFTOP WITH QUIETCURB
SX, SF, SE, SL, SS 105, 115, & 130 Ton Supply Fan - Sound Power Levels**

Discharge Lw, dB

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K		63	125	250	500	1K	2K	4K	8K
31000	2.5	1054	85	81	74	69	63	57	53	48		79	74	74	65	60	59	59	48
31000	3	1109	86	82	75	70	64	58	54	49		80	74	75	66	61	60	59	48
31000	3.5	1160	87	82	76	70	64	58	55	50		80	75	77	67	61	61	60	49
31000	4	1213	88	82	77	71	65	59	56	52		81	76	78	68	62	62	60	50
31000	4.5	1265	89	83	78	72	66	60	57	53		81	76	79	69	63	62	60	51
31000	5	1314	89	84	79	72	67	60	58	54		82	77	80	70	64	63	61	51
31000	5.5	1362	90	85	80	73	68	60	58	55		82	78	81	71	65	64	61	52
31000	6	1410	91	86	81	74	68	61	59	56		83	78	82	72	66	64	62	53
31000	6.5	1457	92	86	82	75	69	62	60	57		84	79	83	72	67	65	62	54
39000	2.5	1192	88	84	78	72	67	59	56	51		80	76	78	68	63	61	60	49
39000	3	1239	88	84	79	73	67	60	57	52		81	76	79	69	63	62	60	50
39000	3.5	1284	89	84	80	74	68	60	57	53		81	76	80	70	64	62	60	50
39000	4	1330	89	84	80	74	68	61	58	54		81	77	80	70	65	63	61	51
39000	4.5	1374	89	85	81	75	69	61	59	55		82	77	81	71	66	64	61	52
39000	5	1416	90	85	82	75	69	62	60	56		82	78	82	72	66	64	61	52
39000	5.5	1456	90	86	83	76	70	63	60	57		83	78	83	72	67	65	61	53
39000	6	1499	91	86	84	76	71	63	61	58		83	79	84	73	68	65	61	54
39000	6.5	1541	92	87	85	77	71	64	62	58		84	80	85	74	68	66	62	55
46000	3	1366	89	86	82	76	70	62	59	55		82	77	81	71	66	63	61	52
46000	3.5	1408	90	86	83	77	71	63	60	56		82	78	82	72	66	64	61	52
46000	4	1448	90	86	84	77	71	64	61	57		83	78	83	73	67	64	61	53
46000	4.5	1487	91	86	85	78	72	64	61	57		83	79	84	73	68	65	61	53
46000	5	1525	91	87	86	78	72	64	62	58		84	79	85	74	68	65	61	54
46000	5.5	1564	92	87	87	79	73	64	62	59		84	80	86	74	69	66	61	55
46000	6	1602	92	88	88	79	73	65	63	60		85	80	86	75	70	66	62	55

EXHAUST FAN ----- Sound Power Levels

Return Lw, dB

CFM	TSP	RPM	63	125	250	500	1K	2K	4K	8K
24300	0.25	460	80	73	69	66	64	68	66	60
24300	0.75	540	82	74	71	68	66	67	64	58
24300	1.5	650	85	77	73	71	69	68	64	58
24300	2.5	800	90	81	77	75	74	73	68	62
33300	0.25	610	87	80	77	75	73	74	71	63
33300	0.75	660	87	80	77	75	73	72	67	60
33300	1.5	750	90	81	78	77	75	73	68	61
33300	2.5	865	93	84	81	79	78	76	71	64
40500	0.25	730	92	84	82	80	80	79	75	67
40500	0.75	770	92	84	81	81	79	77	72	65
40500	1.5	845	94	85	82	81	80	78	73	65
40500	2.5	940	96	86	84	83	82	78	72	65

2.01 MANUFACTURERS

A. Provide Trane QuietCurb™ or approved alternate by Custom Curb Inc. or Micro Metl. Alternates must include high density sheathing in the base of the curb, spring-vibration isolation rail, low velocity air flow patterning, and be lined internally with minimum 4" insulation containing a perforated liner backing. The curb must comply with the sound power level performance and features specified herein and as indicated on the contract documents.

OR

A. Manufacturer of rooftop units [rooftop air handlers] shall provide acoustical curbs to form a complete and matched rooftop system with documented octave band sound power performance.

OR

* A. Provide Trane QuietCurb™.

2.02 ROOFCURBS

A. Roofcurb shall be prefabricated, non-combustible construction with sealing gasket around perimeter members to insure air/water tight integrity. The curb shall be constructed of minimum 14 ga. galvanized steel structural members with minimum 20 ga. galvanized steel flashing with overlapping continuous rubber counterflashing. Curb shall be furnished with a 2" X 2" nailer strip for attaching roofing felts. The base of the curb shall contain acoustically non-conductive floor pans with the supply and return air openings framed for duct attachment (duct must be supported independent of curb and flex connected).

B. Curb shall incorporate integral spring-vibration isolation rail with adjustable 1" deflection isolators, properly sized and selected for unit point loading. Spring isolators shall have a minimum of 90% isolation efficiency.

C. Roofcurb shall be shipped [fully assembled from the manufacturing site] [and] seismically isolated with [vertically stabalized] spring isolators [incorporating vertical limit stops].

The following paragraph applies to packaged rooftops only - not roof mounted air handling units

- # D. The curb shall be designed to provide pedestal support for an open (no base pan constructed) condensing section. Full perimeter supported condensing sections shall not be permitted.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install the roofcurb in accordance with manufacturer's recommendations and as shown on the construction documents.
- B. Coordinate piping and power entry locations with other trades. Supporting structural framing shall be sized and installed as indicated on the construction documents. Submit shop drawings to the Architect, with point loadings and curb layout, for approval, prior to beginning work.

END OF SECTION

+++++ SPEC BRIEF +++++ >>>>>DELETE FROM DOCUMENT <<<<<<

1.03, B.

2.01, A.

Requiring published sound data to document performance of the roofcurb-rooftop "system" eliminates the guesswork involved to engineer a quiet job for the customer. Vendor products which cannot provide documentation for the real world performance of the combination curb-unit should not be allowed.

2.01, A.

"QuietCurb" is a proprietary feature THAT WORKS producing up to 18 NC reductions in sound power levels (depending on size). Let the OWNER make the buying decision based upon unprecedented performance in quiet comfort!

2.02, C.

QuietCurb™ is unique in that the product is shipped fully assembled from the manufacturing point directly to the job site. This feature is beneficial for jobs with tight schedules or replacement opportunities that have been plagued with poor acoustic performance.

2.02, D.

Manufacturer's which do not have open (no base pan constructed) condensing sections should not be allowed to bid. If allowed, the base pan in the condensing section can resonate, amplifying compressor noise. Designs without the base pan eliminate the "drum head" potential and allow compressor noise to break out above the roof line. Whereas, full perimeter base pan designs radiate and reflect the noise directly into the ceiling space below.



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Digital Display Clock Specifications

2.5" (6.35cm) 4 and 6 Digit LED Display

Sleek, Contoured Style

Highly Visible LED Display

Alternating Time and Date (self adjustable)

12/24 hr. Display Format

Adjustable Brightness (dimming)

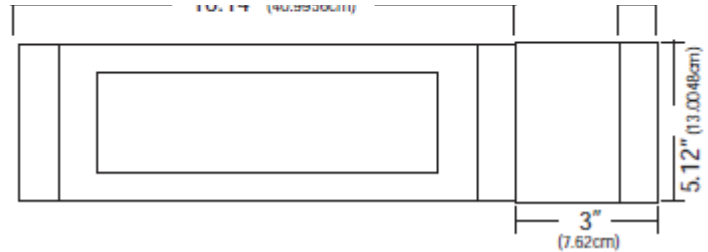
POE Standard IEEE 802.3af

Operating Temperature Range:

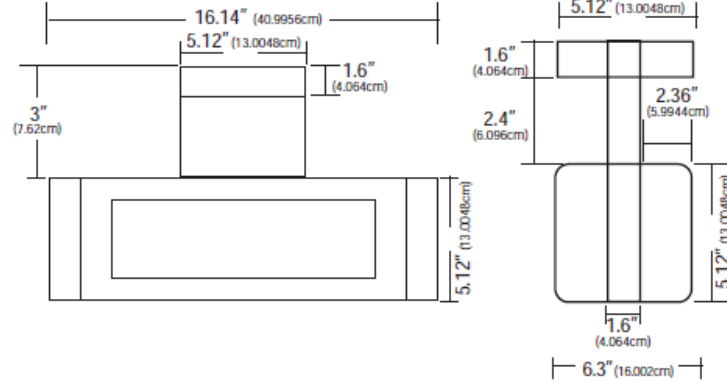
32°–122° F/-10° C – 50° C

Storage Temperature Range:

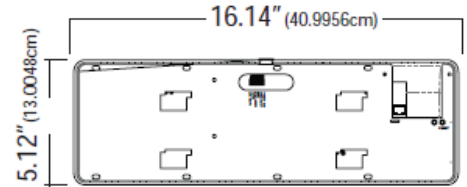
14°–140° F/-10° C – 60° C



Ceiling Mount - Front View

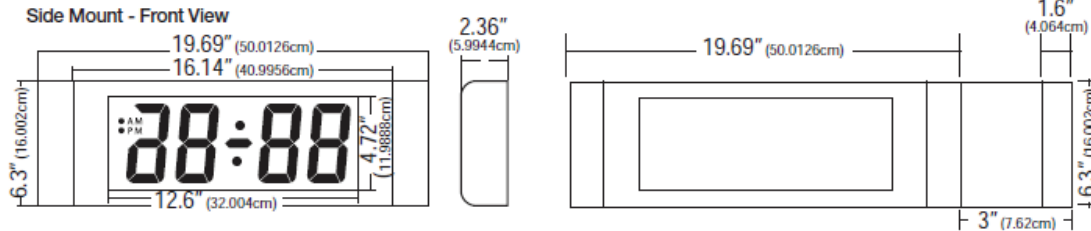


Back View

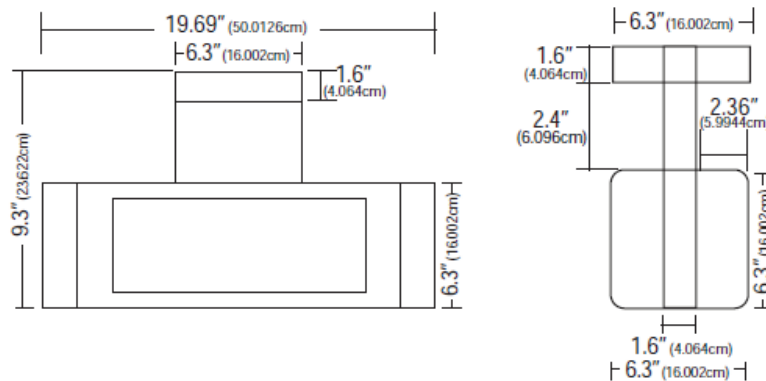


4" (10.16cm) 4 Digit LED Display

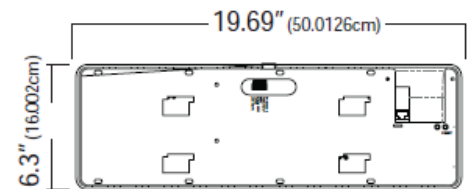
Side Mount - Front View



Ceiling Mount - Front View



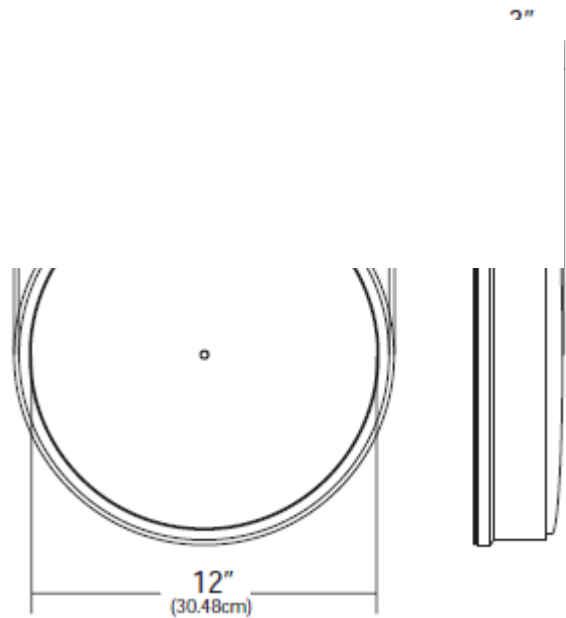
Back View



13" (33.02cm) Standard Clock Specifications

- Heavy Duty Construction
- Durable ABS Casing
- Polycarbonate Lens (shatter resistant)
- IEEE 802.3af

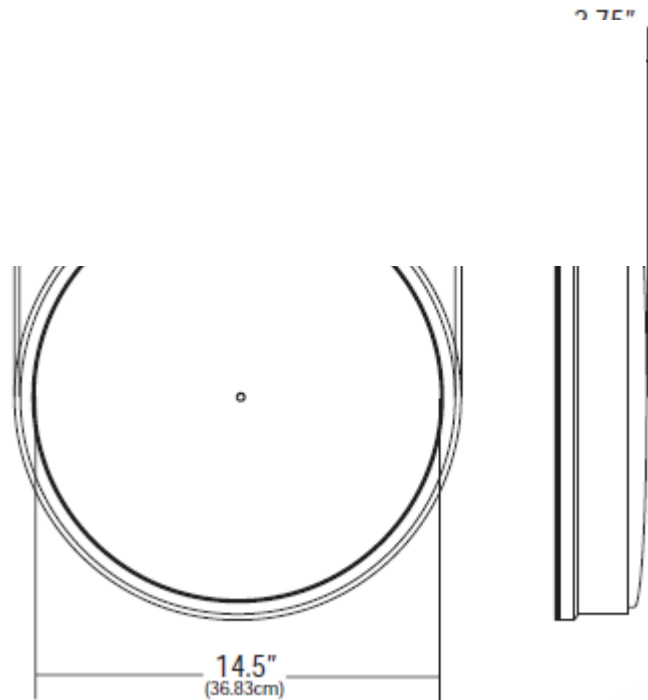
- Rear Case Diameter:** 13.2" (33.528cm)
- Front Case Diameter:** 12.75" (32.385cm)
- Dial Graphics Diameter:** 12" (30.48cm)
- Edge Thickness:** 2.6" (6.604cm)
- Center Thickness:** 3" (7.62cm)



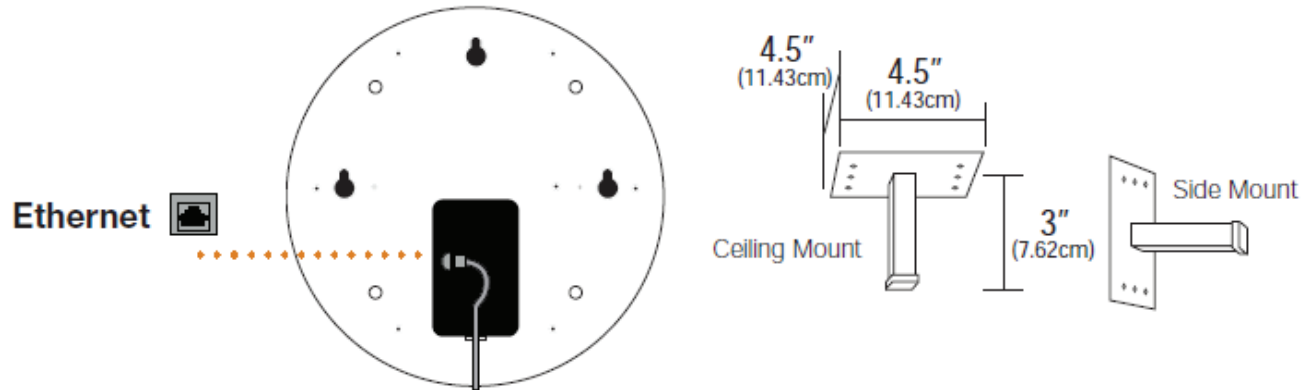
16" (40.64cm) Standard Clock Specifications

- Heavy Duty Construction
- Durable ABS Casing
- Polycarbonate Lens (shatter resistant)
- IEEE 802.3af

- Rear Case Diameter:** 16" (40.64cm)
- Front Case Diameter:** 15.5" (39.37cm)
- Dial Graphics Diameter:** 14.5" (36.83cm)
- Edge Thickness:** 2.25" (5.715cm)
- Center Thickness:** 2.75" (6.985cm)
- Ceiling and Side Mount Dimensions:** 3" H x 4.5" D (3.62cm H x 11.43cm D)



13" (33.02cm) and 16" (40.64cm) Rear View



PA Wireless Speaker (Standard) Specifications

Designed for Indoor Applications

Up to 30W Continuous Power

5" Woofer

Strong/Secure Swivel Mounting
Bracket

Dimensions: 9.7" H x 7.3" W x 6.5"
D

(24.638cm H x 18.542cm W x
16.51cm D)

Weight: 6.14 lbs (2.78 kg)

Power: 30 Watts Continuous, 65
Watts Peak

Operating Temp Range: 14°F –
130°F / -10°C – 54°C

Humidity: 0% – 95% Non-Condensing

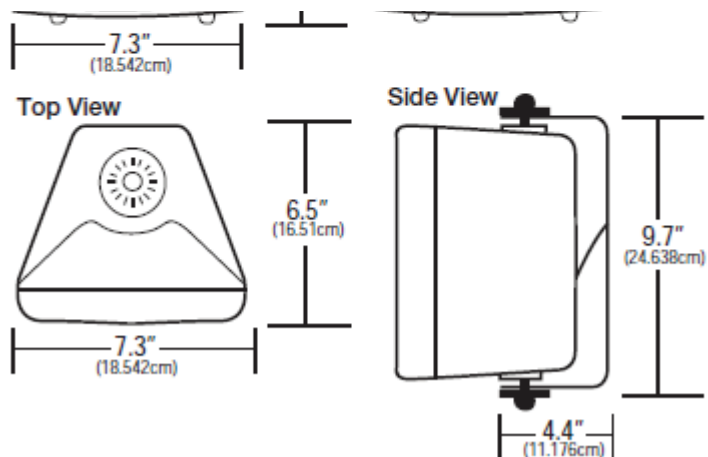
Frame: ABS and Powder Coated Iron Mesh

Color: White

Frequency Response: 100 Hz – 20KHz

Sound Level: 90 db @ 1 meter

Impedance: 8 Ohms



Power Supply: IEEE802.3af

Mounting: Wall w/180° Swivel Mounting Bracket

PA Wireless Speaker (High Power) Specifications

Designed for Indoor

Installations

Up to 50W Continuous Power

6" Woofer

Strong/Secure Swivel Mounting
Bracket

Dimensions: 11.2" H x 8.5" W x
7.5" D
(28.448cm H x 21.59cm W x
19.05cm D)

Weight: 7.7 lbs (3.49 kg)

Power: 50 Watts Continuous,
100Watts Peak

Operating Temp Range: 14°F –
130°F / -10°C – 54°C

Humidity: 0% – 95% Non-Condensing

Frame: ABS and Powder Coated Iron Mesh

Color: White

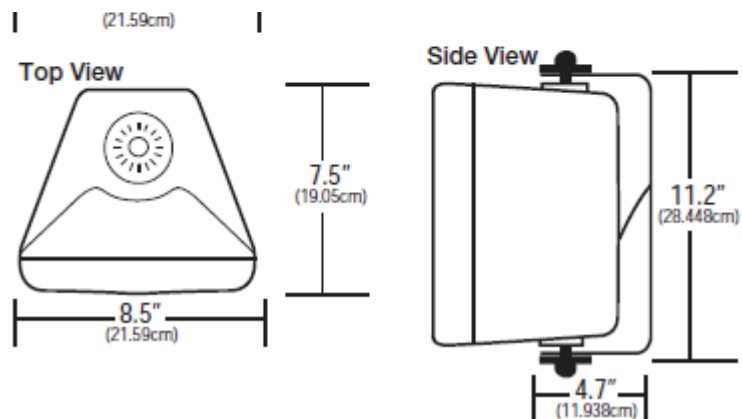
Frequency Response: 100 Hz – 20KHz

Sound Level: 95 dB @ 1 meter

Impedance: 8 Ohms

Power Supply: IEEE802.3af

Mounting: Wall w/180° Swivel Mounting Bracket



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Appendix H

CEQA Transportation Impact Analysis

Prepared by

FEHR & PEERS

101 Pacifica

Suite 300

Irvine, CA 92618

949.308.6300

Prepared for

**University of California,
Riverside**

UC Riverside STEM Education Center

CEQA

Transportation

Impact Analysis

September 2023

Riverside Unified School District

STEM Education Center

CEQA Transportation Impact Analysis

Prepared for:

University of California, Riverside (UCR)

September 2023

OC 21-0854

FEHR  PEERS

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Executive Summary

Fehr & Peers has completed a transportation impact analysis (TIA) for the University of California, Riverside (UC Riverside) and Riverside Unified School District (RUSD) for the Science, Technology, Engineering, and Mathematics (STEM) Education Center Project (Project) in Riverside, California. The Project would employ approximately 60 faculty and staff and is expected to serve a capacity of approximately 800 students at any given time (400 full-time and 800 part-time students who split morning and afternoons, resulting in approximately 800 full time equivalent students), who are pursuing their interests and aptitudes in STEM. Students would travel to and from the Project site via bussing, student drivers, and parent pick-up and drop-off.

As part of the TIA, and consistent with the California Environmental Quality Act (CEQA) requirements for the study of Vehicle Miles Traveled (VMT) for the determination of significant transportation impacts, the following scenarios were analyzed:

- Baseline – The baseline 2022 condition for the VMT analysis was developed using the Base Year 2018 Riverside County Transportation Model (RIVCOM) model and interpolation to develop the 2022 condition.
- Baseline Plus Project – Project traffic from the addition of the proposed student enrollment and faculty/staff was added to the Baseline conditions to develop Baseline Plus Project conditions.
- Cumulative Without Project – The Cumulative Without Project 2045 conditions were developed using the Future Year RIVCOM model.
- Cumulative Plus Project – Project traffic from the addition of the proposed student enrollment and faculty/staff was added to the Cumulative Without Project conditions to create the Cumulative Plus Project conditions.

Analysis

This study considered the effect of the Project as it relates to VMT. As a result of Senate Bill 743 (SB 743) and the current CEQA guidelines for determining transportation impacts, this study considered VMT as the metric for evaluating the Project's environmental impacts on the transportation system.

Findings

Based on methodology used by UC Riverside for determining VMT impacts, the Project is eligible for screening from VMT analysis based on the local-serving use criteria. Local-serving is defined by the City of Riverside in the *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (July 2020) as a project which would decrease the number of trips or the distance those trips travel to access the development. Within the list of projects defined as local-serving by the City of Riverside, local-serving K-12 schools are identified. In October 2021, RUSD decided that students only who reside inside



of RUSD boundaries would be eligible to attend the existing RUSD STEM Academy (STEM Academy) beginning with the 2022-2023 5th grade cohort and going forward for the following school years¹. As a result, assuming the Project opens in 2028, there may only be two remaining grades (11th and 12th grade) which could include students from outside the RUSD boundary, and the Project would have no students from outside the RUSD boundary in 2030 and beyond. By only serving students within the RUSD boundaries, the Project could be considered local-serving to RUSD. Therefore, this Project meets the requirements of a local-serving project and can be presumed to have a less-than-significant impact on transportation.

Because the Project meets the requirements of a local-serving project and can be presumed to have a less than significant impact, there is no requirement to conduct a VMT analysis for the Project. Therefore, the VMT analysis conducted in this TIA is for informational purposes.

VMT generated by the Project was analyzed under Baseline (2022) and Cumulative (2045) conditions. The baseline Project-generated VMT per Service Population does not exceed the threshold of 15 percent below Western Riverside Council of Governments (WRCOG) VMT per Service Population. The Cumulative Project-generated VMT per Service Population also does not exceed the threshold of 15 percent below WRCOG VMT per Service Population. Furthermore, the Project effect on VMT per Service Population does not cause total VMT for the WRCOG region to exceed the future forecast from the Southern California Association of Governments Regional Transportation Plan/Sustainable Communities Strategy (SCAG RTP/SCS).

¹ <https://sites.google.com/riversideunified.org/rsa-recruitment2021/riverside-stem-academy?authuser=0>



Introduction

Fehr & Peers has completed a transportation impact analysis (TIA) for the University of California, Riverside (UC Riverside) and Riverside Unified School District (RUSD) for the Science, Technology, Engineering, and Mathematics (STEM) Education Center Project (Project) in Riverside, California. This report summarizes the methodology, findings, and conclusions of the analysis, including identification of recommended mitigation measures necessary for Project impacts, where feasible. This chapter outlines the geographic scope of the transportation impact analysis, including the study area.

Project Description

The Project is a three-story RUSD STEM Education Center to support students in grades 9 through 12. The Project would employ approximately 60 faculty and staff and is expected to serve a capacity of approximately 800 students at any given time (400 full-time and 800 part-time students who split mornings and afternoons, resulting in approximately 800 full-time equivalent students), who are pursuing their interests and aptitudes in STEM subject areas. The Project site plan is shown on **Figure 1**. Student travel to and from the Project site would be managed with the use of bussing, student drivers, and parent pick-up and drop-off. Students taking the bus to the Project would be picked up from and dropped off at the other existing high schools in RUSD.

The Project site is located at the southwest corner of Canyon Crest Drive and Blaine Street. **Figure 2** identifies the location of the Project site in the study area. The Project would have two driveways on Canyon Crest Drive and one driveway on Blaine Street. The main driveway would be located off Canyon Crest Drive and would lead vehicles into the parking lot area. This main driveway would be signalized to allow for protected turns into and out of the project site. A school pick-up and drop-off lane would be provided by the front (south side) of the main building, accessible from the main driveway.

A second driveway would be located off Canyon Crest Drive, approximately 80 feet south of the main driveway. The second driveway would be accessible to school buses, emergency and first responders, and service vehicles only (including UCR vehicles), and circulation for the buses and service vehicles would proceed in one direction by entering from the Canyon Crest Drive driveway and exiting from the Blaine Street driveway (located in the northwest corner of the Project site). Enforcement of the allowable vehicles could be conducted by school faculty and staff.

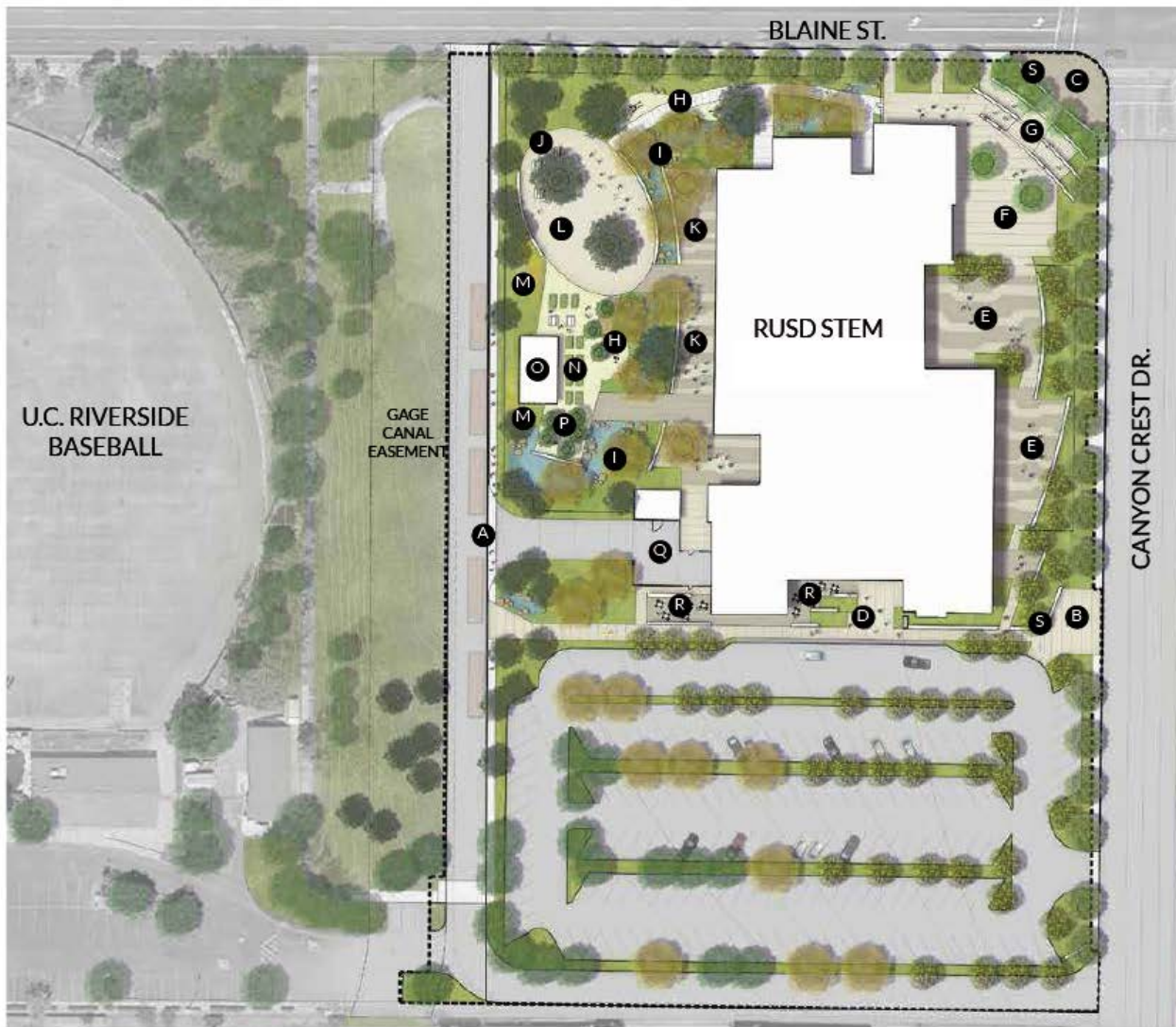
The Blaine Street driveway would be for exit only. This second driveway would be controlled by a stop sign for exiting vehicles. The UCR vehicles may enter off Canyon Crest Drive and may either exit from the Blaine Street driveway or may proceed west to Parking Lot 26 through an access controlled gate to connect to the UCR Baseball Complex and then exit off Rustin Avenue.

Project construction is anticipated to be completed as early as 2028 for student use in the 2028 – 2029 academic year. The Project is intended to replace grades 9 through 12 at the existing STEM Academy at 4466 Mt. Vernon Avenue in Riverside, California. The existing STEM Academy has a student population for grades 9 through 12 of approximately 238 full-time students.



The existing STEM Academy student enrollment consists mainly of students from the RUSD service area as well as some students from nearby communities such as Moreno Valley and Corona. However, at the October 7, 2021 RUSD board meeting, it was unanimously decided that there would be no allocation of attendance eligibility at the existing STEM Academy for students who are residing outside of RUSD boundaries beginning with the 2022-2023 5th grade and going forward for the following school years. This change would also affect the student enrollment for the Project because the 2022-2023 5th grade class would be the 2029-2030 12th grade class, and the Project would have no students from outside the RUSD boundary in 2030 and beyond.





PROGRAM ELEMENTS

- A BUS DROP-OFF
- B CANYON CREST ENTRY
- C UCR CAMPUS ENTRY PLAZA
- D ENTRY PLAZA AND DROP-OFF
- E ROBOTICS TESTING AREA
- F STEM DEMONSTRATION PLAZA
- G AMPHITHEATRE
- H FITNESS EQUIPMENT
- I STORM WATER BASIN
- J STUDY TABLES
- K CLASSROOM PATIOS
- L GRADUATION PLAZA
- M POLLINATOR GARDEN
- N GARDEN BEDS
- O GREENHOUSE
- P TEACHING ORCHARD W/ SEATING
- Q SERVICE YARD
- R LUNCH / CAFE SEATING
- S SIGNAGE
- GAGE CANAL EASEMENT
- LIMIT OF WORK



Figure 1
Project Site Plan



Project Site



Figure 2

Study Area

Geographic Scope

The geographic scope of the Vehicle Miles Traveled (VMT) analysis utilized the geographic boundaries provided in the Riverside County Transportation Model (RIVCOM) model. The RIVCOM model includes the geographic area of Riverside County and the Southern California Association of Governments (SCAG) area (Ventura, Los Angeles, Orange, San Bernardino, Riverside, and Imperial Counties) in the traffic modeling analysis. While the RIVCOM model is used for projects located in the WRCOG region, the VMT analysis accounts for trips in the larger SCAG area.

Analysis Scenarios

To identify potential California Environmental Quality Act (CEQA) significant transportation impacts associated with VMT, the following scenarios were analyzed:

- Baseline – The baseline condition for the VMT analysis was developed using the Base Year 2018 RIVCOM model and interpolation to develop the 2022 condition.
- Baseline Plus Project – Project traffic from the addition of the student enrollment and faculty/staff was added to the Baseline conditions to develop Baseline Plus Project conditions.
- Cumulative Without Project – The Cumulative Without Project conditions were developed using the Future Year 2045 RIVCOM model.
- Cumulative Plus Project – Project traffic from the addition of the student enrollment and faculty/staff was added to the Cumulative Without Project conditions to create the Cumulative Plus Project conditions.



Analysis Methodology

This chapter discusses the analysis methodology and assumptions in this analysis.

Vehicle Miles Traveled

On September 27, 2013, Governor Jerry Brown signed Senate Bill 743 (SB 743) into law and started a process to fundamentally change transportation impact analysis conducted as part of CEQA compliance. The Governor's Office of Planning and Research (OPR) was charged with developing new guidelines for evaluating transportation impacts under CEQA using methods that no longer focus on measuring automobile delay and level of service (LOS). This change at the state level recognizes the unintended consequences of using LOS as an impact metric, which results in understating potential transportation impacts in greenfield areas and discouraging more sustainable infill projects and active transportation projects. SB 743 directed OPR to develop new guidelines that use a transportation performance metric that would help promote the reduction of greenhouse gas emissions, the development of multimodal networks, and a more sustainable diversity of land uses.

OPR issued proposed updates to the CEQA Guidelines in support of these goals in November 2017² and a supporting Technical Advisory in December 2018.³ The updates establish VMT as the primary metric for evaluating a project's environmental impacts on the transportation system. The changes to CEQA Guidelines Section 15064.3 to implement SB 743 were approved by the State in December of 2018 and went into effect in July 2019.

The VMT analysis reflects the number of vehicle trips generated by the Project and the expected distance that vehicles would travel to/from the Project site for their work/school trips as well as other trips generated by school visitors. The Project-generated VMT was calculated for each scenario based on operational characteristics of the Project and zip code data for students and faculty/staff at the existing STEM Academy. The metric utilized for the transportation analysis is Total VMT per Service Population, which represents the daily VMT generated by the Project divided by the number of employees and total students at the Project site. These VMT measurements and associated calculations of VMT per Service Population were used to evaluate the VMT impact of the Project.

VMT Screening Criteria

As part of the VMT analysis, lead agencies may choose to use an impact screening method to streamline project review for VMT impacts. If a project does not pass an initial screening test, then a full VMT impact analysis is warranted. Three screening criteria have been identified by UCR/RUSD and include local-

² State of California, Governor's Office of Planning and Research, *Proposed Updates to the CEQA Guidelines, Final*, November 2017.

³ State of California, Governor's Office of Planning and Research, *Technical Advisory on Evaluating Transportation Impacts in CEQA*, December 2018.



serving projects, projects in Transit Priority Areas (TPA),⁴ and low VMT areas. Based on the operational characteristics of the Project and changes in the location of future student enrollment boundaries, the local-serving screening criteria was identified as a potential method to screen the Project from VMT analysis.⁵

The local-serving project screening is a valid screening criterion because certain project types may be presumed to have a less than significant impact absent substantial evidence to the contrary. Local-serving is defined by the City of Riverside in the *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (July 2020) as a project which would decrease the number of trips or the distance those trips travel to access the development. Within the list of projects defined as local-serving by the City of Riverside, local-serving K-12 schools are identified. Local-serving K-12 schools can be presumed to have a less than significant impact (absent substantial evidence to the contrary) because their use is limited to a local area if only students that reside locally in the boundary of the applicable school district will attend.

Thresholds of Significance

Although the Project may be eligible for screening from VMT analysis, a review of the VMT generated by the Project was prepared to fully understand the Project's effect on VMT. OPR provided VMT threshold guidance in its Technical Advisory for implementing SB 743. Consistent with that guidance, one of the thresholds for project-generated VMT is whether the project would result in a VMT per Service Population that is 15 percent below the Existing Conditions VMT per Service Population for a region. As explained in OPR's Technical Advisory⁶ prepared for Implementing SB 743:

Based on OPR's extensive review of the applicable research, and in light of an assessment by the California Air Resources Board (CARB) quantifying the need for VMT reduction in order to meet the State's long-term climate goals, OPR recommends that a per capita or per employee VMT that is 15 percent below that of existing development may be a reasonable threshold. [¶] Fifteen percent reductions in VMT are achievable at the project level in a variety of place types.⁷ [¶]

⁴ A TPA is defined as a half mile area around an existing major transit stop or an existing stop along a high-quality transit corridor per the definitions below.

Pub. Resources Code, § 21064.3 - 'Major transit stop' means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.

Pub. Resources Code, § 21155 - For purposes of this section, a 'high-quality transit corridor' means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.

⁵ State of California, Governor's Office of Planning and Research, *Technical Advisory on Evaluating Transportation Impacts in CEQA*, December 2018.

⁶ State of California, Governor's Office of Planning and Research, *Technical Advisory on Evaluating Transportation Impacts in CEQA*, p. 10 -11 December 2018.

⁷ CAPCOA (2010) Quantifying Greenhouse Gas Mitigation Measures, p. 55, available at

<http://www.aqmd.gov/docs/default-source/ceqa/handbook/capcoa-quantifying-greenhouse-gas-mitigation-measures.pdf>



Moreover, a 15 percent reduction is consistent with SB 743's direction to OPR to select a threshold that would help the State achieve its climate goals. As described above, section 21099 states that the criteria for determining significance must "promote the reduction in greenhouse gas emissions." In its document, California Air Resources Board 2017 Scoping Plan-Identified VMT Reductions and Relationship to State Climate Goals,⁸ CARB assesses VMT reduction per capita consistent with its evidence-based modeling scenario that would achieve State climate goals of 40 percent GHG emissions reduction from 1990 levels by 2030 and 80 percent GHG emissions reduction levels from 1990 by 2050. Applying California Department of Finance population forecasts, CARB finds per-capita light-duty vehicle travel would need to be approximately 16.8 percent lower than existing, and overall per-capita vehicle travel would need to be approximately 14.3 percent lower than existing levels under that scenario. Below these levels, a project could be considered low VMT and would, on that metric, be consistent with 2017 Scoping Plan Update assumptions that achieve climate state climate goals... [¶] In summary, achieving 15 percent lower per capita (residential) or per employee (office) VMT than existing development is both generally achievable and is supported by evidence that connects this level of reduction to the State's emissions goals.

The following thresholds of significance were used to determine VMT impacts associated with the Project:

- A project would result in a significant project-generated VMT impact if either of the following conditions are satisfied:
 - The Baseline Plus Project generated VMT per Service Population exceeds 15 percent below the WRCOG baseline VMT per Service Population
 - The Cumulative Plus Project generated VMT per Service Population exceeds 15 percent below the WRCOG baseline VMT per Service Population
- The project's effect⁹ on VMT would be considered significant if it resulted in the following condition being satisfied:

⁸ California Air Resources Board (Jan. 2019) California Air Resources Board 2017 Scoping Plan-Identified VMT Reductions and Relationship to State Climate Goals, available at <https://ww2.arb.ca.gov/resources/documents/carb-2017-scoping-plan-identified-vmt-reductions-and-relationship-state-climate>.

⁹ This methodology is also described by OPR as an "Absolute" VMT metric. More specifically, OPR's Technical Advisory suggests that (1) "Projects that decrease [total] vehicle miles traveled in the project area compared to existing conditions should be presumed to have a less than significant transportation impact." (CEQA Guidelines § 15064.3(b)(1).) (2) "Transportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact." ((CEQA Guidelines § 15064.3(b)(2).) (3) "Where development decreases [total] VMT, lead agencies should consider the impact to be less than significant," (OPR Technical Advisory, p. 16.), (4) "Where a project replaces existing VMT-generating land uses, if the replacement leads to a net overall decrease in VMT, the project would lead to a less-than-significant transportation impact." (OPR Technical Advisory, p. 17.)



- The cumulative link-level boundary¹⁰ WRCOG region VMT per Service Population increases under the Cumulative Plus Project condition compared to Cumulative (2045) conditions

The Project proposes to house only RUSD students and employ new faculty and staff independent of the existing STEM Academy. While all of these population components are responsible for an increase in trips and VMT generated by the Project, management of trip generation has been found to help the State reach emissions goals. The methodology utilized in the VMT analysis accounts for student and employee VMT as well as additional VMT generated by visitors. The VMT threshold used in this study of 15 percent below the WRCOG baseline demonstrates that UC Riverside and RUSD manage VMT and help the State achieve emission goals in connection with the proposed Project.

Riverside County Transportation Model (RIVCOM)

The Riverside County Transportation Model (RIVCOM) was used to develop VMT forecasts for this study.¹¹ The current RIVCOM uses a 2018 base year, a 2045 future year, and Socio-Economic Data (SED) consistent with the Southern California Association of Governments (SCAG) 2020 SCAG Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS).

Socio-Economic Data (SED)

As part of SED review of future year projections in the WRCOG model, a list of approved and pending developments was requested from the City of Riverside (City), County of Riverside, City of Moreno Valley, and UC Riverside. These lists were then reviewed with land use assumptions in the future year model to ensure that all reasonably foreseeable projects within a 15-mile radius of the Project site were accounted for in the land uses assumed in the model under cumulative conditions. A list of all approved and pending developments in the City, County of Riverside, City of Moreno Valley, and UC Riverside is provided in

Appendix A.

Roadway Network

As part of the RIVCOM review, both the base year and future year roadway networks were examined for consistency with existing conditions and planned roadway improvements. The future year roadway network was compared to the 2020 SCAG RTP/SCS to verify that only projects planned to be in place before 2045 were assumed in the network under cumulative conditions. One project listed in the Constrained RTP Project List that is planned to be complete prior to 2045 is the widening of Iowa Avenue from four lanes to six lanes from Blaine Street to the north city limit of Riverside; this Project has an estimated opening year of 2026.

¹⁰ Link-level boundary analysis is the sum of all weekday VMT on a roadway network within a designated boundary divided by service population.

¹¹ The RIVCOM model was developed by the Western Riverside Council of Governments in 2020. WRCOG is the current manager of the RIVCOM model and requests for a copy of the RIVCOM model can be submitted to WRCOG staff.



VMT Estimates

VMT was estimated for the WRCOG region using the Origin/Destination (OD) method. The OD method for calculating VMT sums all weekday VMT generated by trips with at least one trip end in the study area. The OD Method is completed after the fifth and final loops of assignment processing in the travel demand model are finished. Origins are all vehicle trips that start in a specific traffic analysis zone (TAZ), and destinations are all vehicle trips that end in a specific TAZ. The OD Method also accounts for external trips that have one trip end outside of the model boundary (IX-XI trips).

The OD Method calculation was completed by multiplying the OD trip tables and the final assignment skim matrices from the RIVCOM model. The OD tables provided the number of trips between each TAZ, and the skim matrices provided the distance on the roadway network, or trip length, between each TAZ. The full length of all trips with an origin or destination in a TAZ are used to estimate the VMT for that TAZ, and likewise the full length of all trips with an origin or destination in any of the TAZs representing the WRCOG region were used to estimate the WRCOG VMT. RIVCOM input and output files are available upon request.

Due to the unique nature of the Project operating conditions, such as a variety of full-time and part-time students, varying bus usage, off-peak pick-up and drop-off, and varying trip lengths for students, a manual calculation of VMT for the Project was conducted. The VMT calculation used the daily trip generation estimates presented below multiplied by the average trip length for the various types of trips.

Project Traffic Volumes

The methodology used to estimate changes traffic volumes associated with the Project is described below.

Project Trip Generation

While *Trip Generation, 11th Edition* (Institute of Transportation Engineers [ITE], 2021) provides trip generation rates for grades 9-12 school land use, Project trip generation estimates for the off-ramp queuing analysis were estimated using a combination of student enrollment projections, proposed programmatic operations regarding full-time and part-time students, and anticipated travel patterns, as presented in **Table 1**. The proposed student enrollment and staff/faculty employment along with the operational characteristics of students, faculty, and staff traveling to and from the school is expected to generate an estimated new external 1,864 daily trips with 840 trips (470 inbound/370 outbound) during the AM peak hour (7:00 AM to 9:00 AM), 780 trips (370 inbound/410 outbound) during the midday peak hour (2:00 PM to 4:00 PM), and 60 trips (0 inbound/60 outbound) during the PM peak hour (4:00 PM to 6:00 PM). In addition to these time periods, a morning and afternoon part-time student transfer period will occur between 11:00 AM and 1:00 PM. This period will accommodate morning students leaving the Project site to go to other existing high schools and afternoon students arriving at the Project site from other existing high-schools. Buses will be the primary source of transporting these students. This time period was not analyzed as part of the off-ramp queuing analysis do the lower trip generation of the



school arrival and departure and due to its occurrence outside of the typical AM and PM peak hour traffic periods. A credit for the grades 9-12 trips at the existing STEM Academy was not taken for the trip generation estimate of the Project due to the different locations for each facility.

Table 1 – STEM Education Center Trip Generation

SCHOOL ARRIVAL HOUR (AM)						
Students (Full-Time) In	400	Students (Full-Time) Out	0			
Students (Part-Time) In	400	Students (Part-Time) Out	0			
Faculty/Staff In	60	Faculty/Staff Out	0			
Person Trips	People	Vehicle Trips	In	Out	Total	AVO
Bus [a][b]	400	Bus	10	10	20	40.00
Student Drive Alone [c]	40	Student Drive Alone	40	0	40	1.00
Student Drop-Off [d][e]	360	Student Drop-Off	360	360	720	1.00
Faculty/Staff	60	Faculty/Staff	60	0	60	1.00
		Total Trips	470	370	840	
PART-TIME STUDENT TRANSFER						
Students (Full-Time) In	0	Students (Full-Time) Out	0			
Students (Part-Time) In	400	Students (Part-Time) Out	400			
Faculty/Staff In	0	Faculty/Staff Out	0			
Person Trips	People	Vehicle Trips	In	Out	Total	AVO
Bus [a][b]	760	Bus	10	10	20	40.00
Student Drive Alone [c]	40	Student Drive Alone	20	20	40	1.00
Student Drop-Off [d][e]	0	Student Drop-Off	0	0	0	-
Faculty/Staff	0	Faculty/Staff	0	60	60	1.00
		Total Trips	30	30	60	
SCHOOL DEPARTURE HOUR (MD)						
Students (Full-Time) In	0	Students (Full-Time) Out	400			
Students (Part-Time) In	0	Students (Part-Time) Out	400			
Faculty/Staff In	0	Faculty/Staff Out	0			
Person Trips	People	Vehicle Trips	In	Out	Total	AVO
Bus [a][b]	400	Bus	10	10	20	40.00
Student Drive Alone [c]	40	Student Drive Alone	0	40	40	1.00



Student Pick-Up [d][e]	360	Student Pick-Up	360	360	720	1.00
Faculty/Staff	0	Faculty/Staff	0	0	0	-
Total Trips	370	410	780			

PM PEAK HOUR (PM)

Students (Full-Time) In	0	Students (Full-Time) Out	0			
Students (Part-Time) In	0	Students (Part-Time) Out	0			
Faculty/Staff In	0	Faculty/Staff Out	60			
Person Trips	People	Vehicle Trips	In	Out	Total	AVO
Bus [a][b]	0	Bus	0	0	0	-
Student Drive Alone [c]	0	Student Drive Alone	0	0	0	-
Student Pick-Up [d][e]	0	Student Pick-Up	0	0	0	-
Faculty/Staff	60	Faculty/Staff	0	60	60	1.00
Total Trips	0	60	0	60	60	

DAILY

Students (Full-Time)	400					
Students (Part-Time)	800					
Faculty/Staff In	60					
Visitors [f]	60					
Deliveries	2					

Person Trips	People	Vehicle Trips	In	Out	Total	AVO
Bus [a][b][g]	700	Bus	30	30	60	-
Student Drive Alone [c][h]	60	Student Drive Alone	60	60	120	-
Student Pick-Up/Drop-Off [d][e]	440	Student Pick-Up/Drop-Off	720	720	1,440	-
Faculty/Staff	60	Faculty/Staff	60	60	120	-
Visitors [f]	60	Visitors	60	60	120	-
Deliveries [i]	2	Deliveries	2	2	4	-
Total Trips	932	932	932	932	1,864	

Notes: AVO = Average Vehicle Occupancy

Based on information provided by RUSD and STEM Academy Principal, the following was assumed:

- [a]: 25 percent bussing assumed for full-time students.
- [b]: 75 percent bussing assumed during school arrival and departure, and 95 percent bussing assumed during part-time student transfer.
- [c]: 5 percent student drive alone assumed for full-time and part-time students.
- [d]: 70 percent student drop-off assumed for full-time students.
- [e]: 20 percent student pick-up/drop-off assumed for part-time students during school arrival and departure.



[f]: The number of visitors to the STEM Education Center was assumed to reflect approximately 5 percent of the student population and not travel during the peak hours of school operation.

[g]: During the transfer of part-time students, 10 buses enter and exit the Project site to drop-off and pick-up bused part-time students. This occurs outside of these identified peak hours of school operation.

[h]: During the transfer of part-time students, 20 students enter the campus driving alone and 20 students exit the campus driving alone. This occurs outside of these identified peak hours of school operation.

[i]: Deliveries to the Project site are expected to occur outside the peak hours of school operation.

Project Trip Distribution

The Project trip distribution reflects the distribution of the existing grades 9 through 12 students and the staff/faculty at the existing STEM Academy. Anonymous zip code data for students, faculty, and staff from the existing STEM Academy for the 2021 academic year was reviewed to determine the starting and ending location for trips to and from the school. Although this data would shift each year the proposed school is in operation, the existing zip code data for the students, faculty, and staff reflects the best available information at this time, and future trip distribution for the Project should generally reflect a similar trip distribution.

Students taking the bus to the Project site would be picked-up and dropped-off at the other existing high schools within the RUSD boundaries.



Existing Conditions

This chapter summarizes the Existing conditions in the study area, including the roadway, transit, bicycle, and pedestrian networks, to document the current travel against which the Project would be assessed.

Existing Roadway Facilities

Regional Roads

Regional roads in the Project site vicinity include:

- Interstate 215/State Route 60 Freeway (I-215/SR 60): The I-215/SR 60 freeway is an interstate highway in Southern California. As a combined route, it runs as I-215/SR 60 in the north/south direction from Moreno Valley to Riverside. The I-215/SR 60 freeway diagonally bisects the UC Riverside campus. Near the Project study area, it is generally an eight-lane facility (four lanes in each direction). Access to the I-215/SR 60 freeway near the Project study area is provided at Blaine Street/3rd Street, University Avenue, Martin Luther King Boulevard, and Central Avenue.

Local Access Roads

Local access roads in the Project site vicinity include:

- Iowa Avenue: Iowa Avenue is a north-south four-lane facility that bisects portions of the UC Riverside West Campus. Iowa Avenue is designated as an arterial by the City of Riverside General Plan¹². It has a speed limit of 45 miles per hour (mph).
- Canyon Crest Drive: Canyon Crest Drive is a north-south facility that widens from a 66-foot (ft) two-lane collector into an 88-ft four-lane arterial. Canyon Crest Drive bisects portions of the UC Riverside East Campus and provides access to the UC Riverside campus core, and to the Project site. It has a variable speed limit ranging between 25 and 40 mph.
- Watkins Drive: Watkins Drive is a north-south two-lane facility along the eastern edge of the UC Riverside East Campus. Watkins Drive is designated as an arterial by the City of Riverside General Plan¹³. It has a variable speed limit ranging between 35 and 45 mph.
- Blaine Street/3rd Street: Blaine Street/3rd Street is an east-west four-lane facility along the northern edge of the UC Riverside East Campus and the northern boundary of the Project site. It is designated as an arterial in the City of Riverside General Plan¹² and has a speed limit of 40 mph.

¹² https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/12_Circulation_&_Community%20Mobility_Element_with%20maps.pdf



Bicycle Facilities

Bicycle facilities in the City of Riverside are classified as follows:

Class I Bikeways (Bike Paths)

Class I bicycle facilities are bicycle trails or paths that are off-street and separated from automobiles. They are a minimum of eight feet in width for two-way travel and include bike lane signage and designated street crossings where needed. A Class I Bike Path may parallel a roadway (within the parkway) or may be a separate right-of-way that meanders through a neighborhood or along a flood control channel or utility right-of-way.

Class II Bikeways (Bike Lanes)

Class II bicycle facilities are striped lanes that provide bike travel and can be either located next to a curb or parking lane. If located next to a curb, a minimum width of five feet is recommended. However, a bike lane adjacent to a parking lane can be four feet in width. Bike lanes are exclusively for the use of bicycles and include bike lane signage, special lane lines, and pavement markings.

Class III Bikeways (Bike Routes)

Class III Bikeways are streets providing for shared use by motor vehicles and bicyclists. While bicyclists have no exclusive use or priority, signage both by the side of the street and stenciled on the roadway surface alerts motorists to bicyclists sharing the roadway space and denotes that the street is an official bike route.

Class IV Bikeways (Cycle Tracks)

Class IV bicycle facilities, sometimes called cycle tracks or separated bikeways, provide a right-of-way designated exclusively for bicycle travel adjacent to a roadway and are protected from vehicular traffic via separations (e.g., grade separation, flexible posts, inflexible physical barriers, on-street parking). California Assembly Bill 1193 (AB 1193) legalized and established design standards for Class IV bikeways in 2015.

Existing Bicycle Facilities

According to the City of Riverside Bicycle Master Plan Updated: Addendum (City of Riverside, March 2012), there is a total of 101.5 miles of existing bike lanes.

Near or within the study area, the following existing Class II bike facilities are provided:

- Iowa Avenue: Bike lanes are provided north of University Avenue on both sides of the street.
- Canyon Crest Drive: Bike lanes are provided north of University Avenue on both sides of the street.



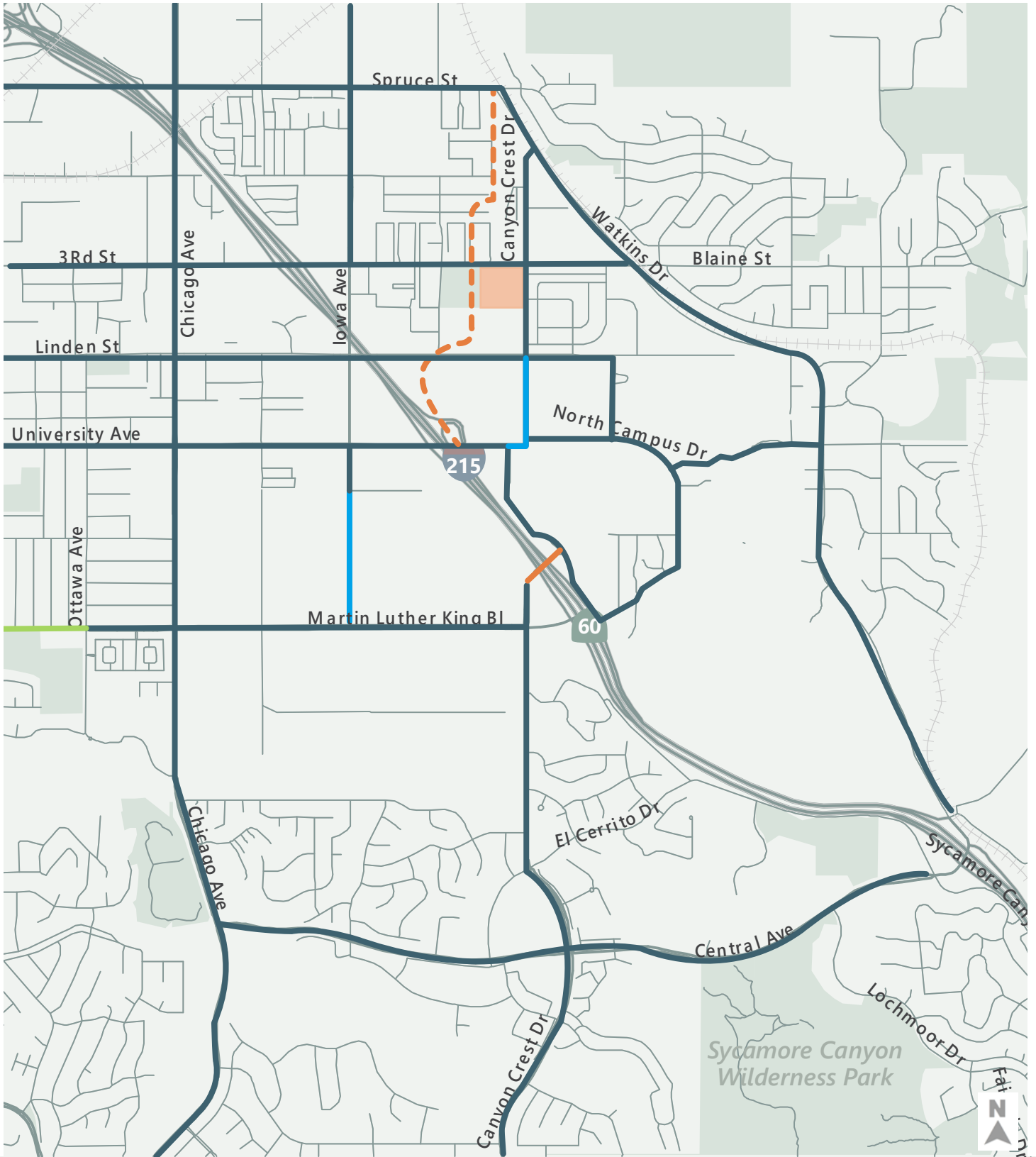
- Watkins Drive: Bike lanes are provided between Spruce Street and the I-215/SR 60 freeway on both sides of the street.
- Blaine Street/3rd Street: Bike lanes are provided between Valencia Hills Drive and Market Street on both sides of the street.
- West Linden Street: Bike lanes are provided between Aberdeen Drive and Niki Way on both sides of the street. A bike lane is provided in the westbound direction between Chicago Avenue and Niki Way.
- University Avenue: Bike lanes are provided between Canyon Crest Drive and Lime Street on both sides of the street.
- Big Springs Road: Bike lanes are provided between Campus Drive and Mt. Vernon Avenue on both sides of the street.
- Martin Luther King Boulevard: Bike lanes are provided between Canyon Crest Drive and Chicago Avenue.
- Aberdeen Drive: Bike lanes are provided between West Linden Street and Campus Drive.
- Campus Drive: Bike lanes are provided on the campus loop road between the Parking Lot 1 Driveway and Aberdeen Drive.

Near the study area, the following Class IV bike facilities are provided:

- University Avenue: A protected two-way cycle track is provided on the south side of University Avenue between Campus Drive and Canyon Crest Drive.
- Canyon Crest Drive: A two-way cycle track is provided on the east side of Canyon Crest Drive between University Avenue and W. Linden Avenue.
- Iowa Avenue: A two-way cycle track is provided on the east side of Iowa Avenue between Everton Place and Martin Luther King Boulevard.

Figure 3 identifies the existing bicycle facilities in and around the study area.





- Existing Class I
- Existing Class II
- Existing Class III
- Existing Class IV
- Proposed Class I
- Project Site

Figure 3
Bicycle Facilities

Pedestrian Facilities

Interconnectivity of land uses, coupled with the provision of adequate pedestrian and bicycle facilities, is an important component of the City's future circulation network. The City seeks to expand pedestrian and bike path network to provide connections between schools, activity centers, parks, and residential areas. A comprehensive trails system is intended to link residential areas, schools, parks, and commercial centers so residents can travel within the community without driving (City of Riverside General Plan, 2012).

Near or within the Project study area, sidewalks are generally provided on the following streets:

- Iowa Avenue
- Canyon Crest Drive
- Watkins Drive
- Blaine Street/3rd Street
- W. Linden Street

The major streets that provide access to the Project include Blaine Street and Canyon Crest Drive. These roadways have well-connected and maintained sidewalk networks near the Project site. These streets currently provide access for pedestrians to the bus stops located near the Project site along Canyon Crest Drive and Blaine Street.

Transit Facilities

The transit facilities provided in the City are described below.

Metrolink

Commuter train service in the City is provided by Metrolink, which operates seven commuter rail lines throughout Southern California. The UC Riverside/Riverside Hunter Park Metrolink Station is located northwest of the intersection between Marlborough Avenue and Rustin Avenue, approximately 1.1 miles north of the Project site. The UC Riverside/Riverside Hunter Park Metrolink Station is served by the 91/Perris Valley Line, which links Perris-South to LA Union Station on weekdays and weekends.

The Downtown Riverside Metrolink Station is located on Vine Street between University Avenue and 14th Street, approximately 2.2 miles west of the Project site. The Downtown Riverside Metrolink Station is served by the 91/Perris Valley Line, which links Perris-South to LA Union Station on weekdays and weekends; the Riverside Line, which links Downtown Riverside to LA Union Station on weekdays; and the Inland Empire-Orange County Line, which links San Bernardino Downtown to Oceanside on weekdays and weekends.

Bus Transit

Riverside Transit Agency (RTA) provides fixed route, commuter, and dial-a-ride bus service within western Riverside County, including the cities of Riverside, Corona, Norco, Jurupa, Grand Terrace, Loma Linda, Moreno Valley, Perris, San Jacinto, Hemet, Lake Elsinore and Temecula. American with Disabilities Act



(ADA) services within the City are provided by the City's Special Services. All buses on fixed routes are equipped with bike racks that hold two bicycles.

RTA routes that serve areas closest to the Project site include Routes 1, 10, 13, 14, 16, and 204. **Figure 4** shows the transit routes in and near the study area, and the 2022 schedule information is provided below.

Route 1 (UC Riverside – Downtown Riverside – Corona) – This route runs from UC Riverside Bannockburn to the West Corona Metrolink Station. Near the Project site, it operates on weekdays from 4:34 AM to 11:31 PM with 20-minute headways. It operates on weekends from 6:54 AM to 10:07 PM with 30-minute headways.

Route 10 (Big Springs & Watkins – Downtown Riverside – Galleria at Tyler) – This route runs from Galleria at Tyler to the intersection between Big Springs Road and Watkins Drive. Near the Project site, it operates on weekdays from 8:18 AM to 8:35 PM with 60-minute headways. It operates on weekends from 9:14 AM to 7:41 PM with 90-minute headways.

Route 13 (Hunter Park/UC Riverside Metrolink Station – Downtown Riverside – Galleria at Tyler) – This route runs from Galleria at Tyler to the Hunter Park/UC Riverside Metrolink Station. Near the Project site, it operates on weekdays from 7:25 AM to 6:22 PM with 60-minute headways. It operates on weekends from 7:20 AM to 5:34 PM with 60-minute headways.

Route 14 (Galleria at Tyler – Downtown Riverside – Loma Linda VA hospital) – This route runs from Galleria at Tyler to the Veterans Affairs Hospital at Loma Linda. Near the Project site, it operates on weekdays from 7:27 AM to 7:29 PM with 60-minute headways. It operates on weekends from 8:11 AM to 5:31 PM with 60-minute headways.

Route 16 (Moreno Valley Mall – UC Riverside) – This route runs from the Moreno Valley Mall to UC Riverside Bannockburn. Near the Project site, it operates on weekdays from 5:35 AM to 10:15 PM with 15-minute headways. It operates on weekends from 7:30 AM to 10:13 PM with 45-minute headways.

Route 204 (UC Riverside – Downtown Riverside – Ontario Mills Mall – Montclair Transit Center) – This route runs from UC Riverside Bannockburn to the Montclair Transit Center. Near the Project site, it operates on weekdays from 6:33 AM to 8:47 PM with 60-minute headways.

Vehicle Miles Traveled

RIVCOM was used to estimate the baseline VMT per Service Population for the WRCOG region using the OD method. **Table 2** presents the VMT per Service Population for the WRCOG region, which would be used for the VMT impact analysis.

Table 2 – Baseline Vehicles Miles Traveled

	VMT	SERVICE POPULATION	VMT PER SERVICE POPULATION
WRCOG Region	90,203,331	2,762,109	32.66

Note: Service population includes employees residents and grades 9 – 12 students.

VMT = Vehicle Miles Traveled.



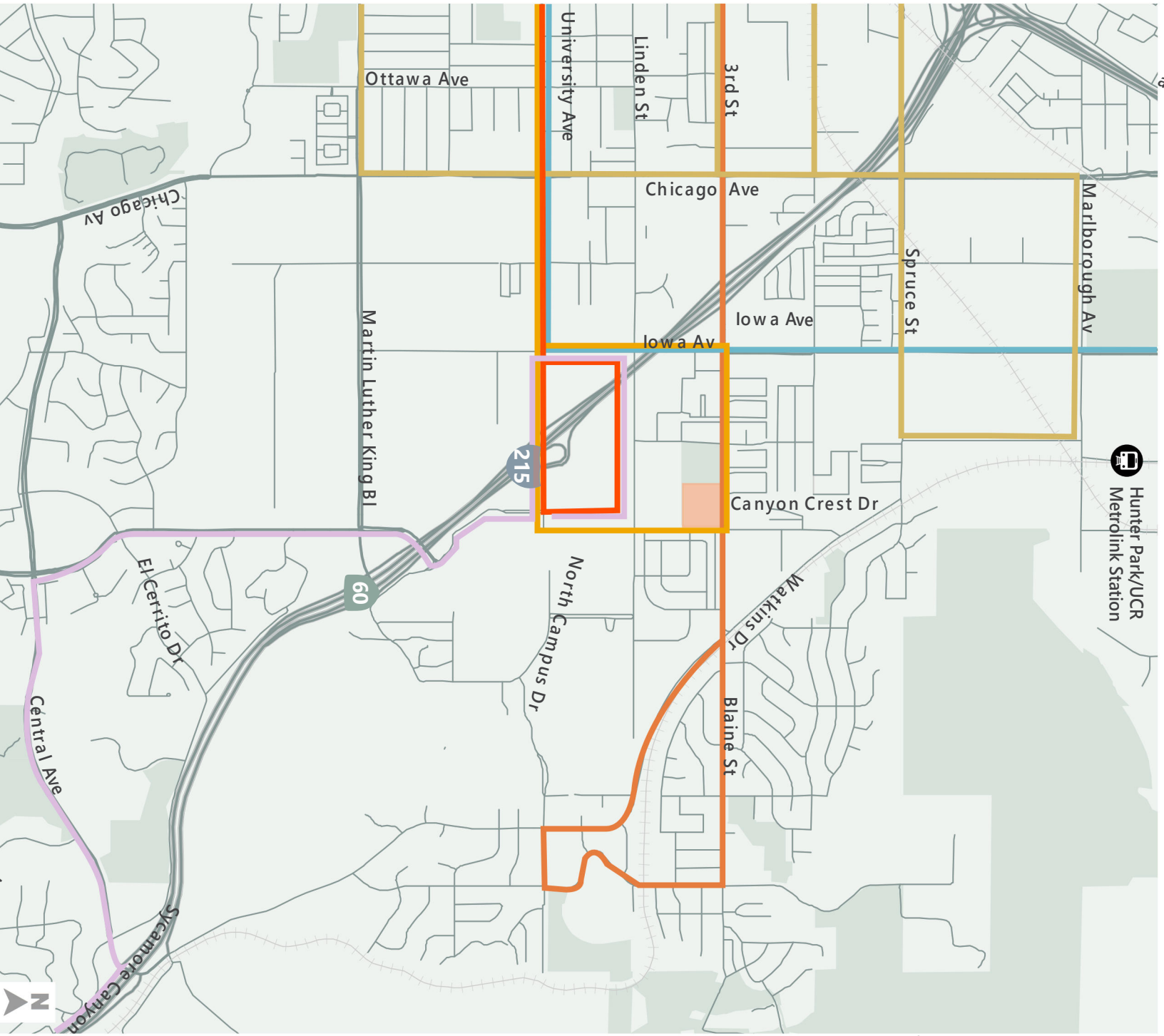


Figure 4
Transit Routes



Alexander

Bpxii
tn/PA

Vehicle Miles Traveled Impact Analysis

VMT Screening

For purposes of SB 743, a VMT analysis should be conducted for land use projects that have the potential to produce VMT per service population above the WRCOG boundary average. As discussed above, a project's VMT analysis should be guided by the results of its screening criteria evaluation. Based on the operational characteristics of the Project and change in the location of future student enrollment boundaries, the local-serving screening criterion was identified as a potential method to screen the Project.

As documented in the project description, the existing STEM Academy student enrollment consists mainly of students from the RUSD service area as well as some students from nearby communities such as Moreno Valley and Corona. However, at the October 7, 2021 RUSD board meeting, it was unanimously decided that there would be no allocation of attendance eligibility at the existing STEM Academy for students who are residing outside of RUSD boundaries beginning with the 2022-2023 5th grade and going forward for the following school years. This change would also affect the student enrollment for the Project because the 2022-2023 5th grade class would be the 2029-2030 12th grade class, and the Project would have no students from outside the RUSD boundary in 2030 and beyond.

Therefore, by the time the Project opens for its first academic year and within two years to follow, the Project would only be serving students from the RUSD boundaries, which would be considered local in the context of the City. Local-serving is defined by the City of Riverside in the *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (July 2020) as a project which would decrease the number of trips or the distance those trips travel to access the development. Within the list of projects defined as local-serving by the City of Riverside, local-serving K-12 schools are identified. Therefore, this Project meets the requirements of local serving project and can be presumed to have a less-than-significant VMT impact.

Project Generated VMT

Because the Project meets the requirements of a local-serving project and can be presumed to have a less than significant impact on VMT, there is no requirement to conduct a VMT analysis for the Project. However, a VMT analysis was conducted in this TIA for informational purposes.

Due to the unique nature of the Project operating conditions such as a variety of full-time and part-time students, varying bus usage, off-peak pick-up and drop-off, and varying trip lengths for students, a manual calculation of VMT for the Project was conducted.



VMT for the Project was calculated by multiplying the daily trip generation estimates by the associated average trip lengths for the various types of trips. These trip types include:

- Bus
- Students dropped off at the local high school for bussing
- Students driving alone
- Students dropped off at the STEM Education Center
- Faculty and staff
- Visitors
- Deliveries

The average trip length of students riding the bus was based on the average distance from the Project site to all the other RUSD high school locations. The Project would consolidate bussing for full-time and part-time students by picking up and dropping off at the RUSD high schools. For the VMT analysis, the full-time student bus riders are considered to create additional VMT by traveling to and from the local high school for bussing. It is assumed that full-time students would not have made the trip to the local high school if not for taking the bus to the Project site. Part-time student bus riders are not considered to make additional VMT by traveling to the local school because they would have to make the trip to their local high school to complete the other part of their school curriculum held there.

The average trip lengths for students driving alone, students picked up/dropped off, and visitors were estimated based on anonymous zip code data for students, faculty, and staff from the existing STEM Academy for the 2021 academic year. Although this data would shift each year the proposed school is in operation, the existing zip code data for the enrolled students reflects the best available information at this time and should generally reflect a similar or higher trip length than what would be expected by year 2045 due to the proposed change of limiting school enrollment for the proposed STEM Education Center to students residing in the RUSD boundary.

The average trip length for faculty and staff were estimated based anonymous zip code data for faculty and staff at the existing STEM Academy. Although this data would shift based on future hiring, this information reflects the best available information at this time and should generally reflect a similar trip length as would be expected by year 2045.

The average trip length for delivery vehicles was based on the distance to the nearest RUSD high school (John W. North High School) because it was assumed that deliveries to the Project site would be made as an extension of current deliveries already occurring to the other high schools.

The VMT for each type of trip was combined and divided by the service population (sum of all employees and students at the Project site) to develop the Project VMT per Service Population for comparison with the WRCOG region.



Table 3 presents the calculation for the VMT per Service Population for the Project.

Table 3 – Project Vehicle Miles Traveled

TRIP TYPE	TOTAL TRIPS	TRIP LENGTH	VMT
Bus	60	6.20	372
Students dropped off at local high school for bus	200	5.00	1,000
Students driving alone	120	7.39	887
Students dropped off	1440	7.39	10,642
Faculty and Staff	120	11.43	1,372
Visitors	120	7.39	887
Deliveries	4	1.00	4
Total VMT			15,164
Service Population			1,260
VMT per Service Population			12.03

Note: Service population includes employees residents and grades 9 – 12 students.
VMT = Vehicle Miles Traveled.

Baseline Plus Project

The WRCOG VMT per Service Population was calculated for the baseline condition using the RIVCOM model to establish the regional threshold. **Table 4** presents the Baseline VMT per Service Population for the Project and WRCOG region.

Table 4 – Baseline Vehicles Miles Traveled Analysis

	VMT	SERVICE POPULATION	VMT PER SERVICE POPULATION
Project	15,164	1,260	12.03
WRCOG Region	90,203,331	2,762,109	32.66

Note: Service population includes employees, residents, and grades 9 – 12 students.
VMT = Vehicle Miles Traveled.

As shown in **Table 6**, the baseline Project generated VMT per Service Population is 63 percent below the WRCOG VMT per Service Population [$1 - (12.03/32.66) = 0.63$] and therefore does not exceed the identified threshold.

Cumulative Plus Project

The Baseline Plus Project VMT analysis included above is also sufficient to serve as the Cumulative Plus Project VMT impact analysis. As discussed under OPR’s Technical Advisory, “metrics such as VMT per



capita or VMT per employee, i.e., metrics framed in terms of efficiency (as recommended below for use on residential and office projects), cannot be summed because they employ a denominator. A project that falls below an efficiency-based threshold that is aligned with long-term environmental goals and relevant plans would have no cumulative impact distinct from the project impact. Accordingly, a finding of a less-than-significant project impact would imply a less than significant cumulative impact, and vice versa.” (OPR Technical Advisory p. 6.) Nevertheless, additional cumulative analysis has been performed.

The WRCOG VMT per Service Population was calculated for the cumulative condition using the RIVCOM model to establish the regional threshold. **Table 5** presents the Cumulative VMT per Service Population for the Project and WRCOG region.

A threshold of 15 percent below the baseline WRCOG VMT per Service Population was used to identify Project-generated impacts.

As shown in **Table 5**, the cumulative Project generated VMT per Service Population is 62 percent below the WRCOG VMT per Service Population [$1 - (12.03/31.34) = 0.62$] and therefore would not exceed the identified threshold.

Table 5 – Cumulative Vehicles Miles Traveled Analysis

	VMT	SERVICE POPULATION	VMT PER SERVICE POPULATION
Project	15,164	1,260	12.03
WRCOG Region	120,042,276	3,830,117	31.34

Note: Service population includes employees, residents, and grade 9 – 12 students.
 VMT = Vehicle Miles Traveled.



Project Effect on VMT

Project effect on regional VMT was estimated using the boundary method on the future RIVCOM model. This was completed by selecting all roadway segments in the RIVCOM model within the WRCOG boundary and multiplying the number of trips on each roadway segment by the length of that roadway segment and dividing by service population to get the link-level regional VMT per service population.

Project effect on VMT is a measure of the potential effects of a project because it captures the combined effect of new VMT, shifting of existing VMT to/from other neighborhoods, and/or shifts in existing VMT to alternate travel routes or modes. Projects that have a positive effect on VMT result in a decrease in the regional VMT per Service Population. Conversely, projects that have a negative effect on VMT increase regional VMT per Service Population. A positive effect on VMT (i.e., a decrease in regional VMT per Service Population) is seen as improving VMT efficiency and is better for the region as a whole.

As shown in **Table 6**, the WRCOG VMT per Service Population under the “with Project” condition does not exceed the cumulative WRCOG region, as identified under the SCAG RTP/SCS, condition.

Table 6 – WRCOG Region Cumulative Project Effect on Vehicles Miles Traveled Analysis

	VMT	SERVICE POPULATION	VMT PER SERVICE POPULATION
WRCOG Region With Project	62,585,391	3,831,377	16.335
WRCOG Region	62,570,221	3,830,117	16.336

Note: Service population includes employees, residents, and grade 9 – 12 students.
 VMT = Vehicle Miles Traveled.



Access and Circulation

This chapter provides an overview of the Project site related to internal and external circulation for the Project. Considerations include site access, parking, and on-site circulation.

On-Site Circulation

On-site circulation would be provided by internal roadways and parking lot drive aisles. Pedestrian paths would connect the buildings located on the Project site to the internal parking facilities and adjacent street network.

Emergency Vehicle Access

Another consideration related to the site plan review is the provision of adequate emergency vehicle access. Providing adequate emergency vehicle access ensures that these vehicles can quickly respond to service calls. Direct emergency access would be provided to all buildings. Emergency access would be provided by the surrounding streets (e.g., Canyon Crest Drive, Blaine Street). All parking lots and internal roadways would be designed to meet the requirements for emergency vehicle access.

Pedestrian Access

The Project site provides pedestrian access to buildings and parking areas through a system of walkways to create a pedestrian friendly environment.

Bicycle Access

Bicycle access to the Project site from surrounding streets is provided with on-street bike lanes on the adjacent roadways of Blaine Street and Canyon Crest Drive. The Project will provide bicycle parking on site.

Transit Access

Transit facilities are located near the Project site along Canyon Crest Drive and Blaine Street. The removal of transit stops is not proposed as part of the Project.

Parking

A surface parking lot is proposed on the southern half of the Project site and would contain approximately 153 spaces for faculty and staff, visitors, and students use. This parking supply should accommodate the number of vehicles expected to park on the Project site based on number of students and faculty expected to drive based on the trip generation estimates.



Non-Vehicular Impact Analysis

This chapter reviews Project related impacts on the transit system and bicycle, pedestrian, and roadway networks in the study area. Potential impacts to pedestrians, bicycles, and transit include disruptions to existing facilities. This chapter also discusses potential interference with planned facilities and conflicts with adopted plans, guidelines, policies, or standards.

Pedestrian Network

The existing pedestrian network infrastructure around the Project site would remain with implementation of the proposed Project.

Disruptions to Existing Facilities

Significance Criterion

The following significance criterion was applied:

A significant impact occurs if a project substantially disrupts existing pedestrian facilities. This can include adding new vehicular, pedestrian, or bicycle traffic at locations experiencing pedestrian safety concerns such as an adjacent crosswalk or school, particularly if the added traffic reduces the number of pedestrian acceptable gaps at an unsignalized crossing or causes queues to spillback through pedestrian crossings.

Project Impact

A review of the Project per the significance criteria described indicates that there are no conflicts with existing pedestrian facilities. Therefore, less than significant impacts would occur.

Interference with Planned Pedestrian Facilities

The Project would not conflict with any planned pedestrian facilities. The Project would not encroach on or interfere with the City's planned Gage Canal Multipurpose Recreational Trail, which would travel adjacent to the Gage Canal from Palmyrita Street to the Riverside Sports Complex located on and adjacent to the project site, just north of Blaine Street (City of Riverside 2021b).

Conflicts with Pedestrian System Plans, Guidelines, Policies, or Standards

Development of the Project would include a continued investment in improving the quality, safety, and character of the pedestrian experience and ensuring it is developed with the principle of universal access in mind. The Project would reconstruct pedestrian infrastructure at the site access points to maintain existing access while following the City's requirements and therefore not conflict with the City's requirements.



Bicycle Network

The existing bicycle network infrastructure around the Project site would remain with implementation of the proposed Project.

Disruptions to Existing Facilities

Significance Criterion

The following significance criterion was applied:

A significant impact occurs if a project substantially disrupts existing bicycle facilities.

Project Impact

As noted in the review of existing facilities, there are several bicycle routes within the study area. It is anticipated that the Project would not affect the operation of any of these existing facilities. Therefore, less than significant impacts would occur.

Project Interference with Planned Bicycle Facilities

The Project would not conflict with any planned bicycle facilities including development of the Gage Canal Multi-purpose trail.

Project Conflicts with Adopted Bicycle System Plans, Guidelines, Policies, or Standards

Development of the Project would include a continued investment in improving the quality, safety, and character of the bicycling experience and ensuring it is developed with the principle of universal access in mind. The Project would reconstruct bicycle infrastructure at the site access points to maintain existing access while following the City's requirements and therefore not conflict with the City's requirements.

Transit System

The existing transit network infrastructure around the Project site would remain with implementation of the proposed Project.

Disruptions to Existing Transit Service

Significance Criterion

The following significance criterion was applied:

A significant impact occurs if a project disrupts existing transit services or facilities. This includes disruptions caused by proposed project driveways on transit streets, impacts to transit stops/shelters, and impacts to transit operations from traffic improvements proposed or resulting from a project.



Project Impact

As noted in the review of existing transit routes, there are several routes adjacent to the Project site. The Project does not propose changes that would significantly disrupt any of the existing transit routes. Therefore, less than significant impacts would occur.

Interference with Planned Transit Services

The Project would not conflict with any planned transit services.

Project Conflicts with Adopted Transit System Plans, Guidelines, Policies, or Standards

Development of the Project would include a continued investment in providing transit service at the existing stops near the Project site. The Project would maintain or reconstruct any transit stops that are affected by development of the Project while following the City's requirements and therefore not conflict with the City's requirements.



Construction Analysis

Historically, construction trips at UC Riverside have been managed to minimize the effect construction-related traffic has on the university and surrounding neighborhoods. The management of construction-related traffic has been accomplished through the implementation of policies in the UC Riverside 2021 Long Range Development Plan Environmental Impact Report (EIR) and would continue to be implemented for campus projects including the proposed Project. These include the following:

- Construction parking must be configured to minimize traffic interference.
- Temporary traffic controls, such as a flag person, are provided during all phases of construction to maintain smooth traffic flow.
- Dedicated turn lanes are provided for movement of construction trucks and equipment on- and off-site.
- Construction activities that affect traffic flow on the arterial system are scheduled during off-peak hours, to the extent practicable.
- Improvements to traffic flow by signal synchronization are implemented, to the extent feasible.
- Vehicles and equipment are required to be properly tuned and maintained according to manufacturer's specifications.
- Construction trucks are rerouted away from congested streets or sensitive receptor areas, to the extent feasible.

Many jurisdictions in Southern California have regarded construction-related traffic as causing adverse but not significant impacts because, while sometimes inconvenient, construction-related traffic effects are temporary. Depending on the size of the facility under construction and the associated labor needs, many projects can be constructed without exceeding the 110 daily trip screening criterion established by OPR for small projects that may generally be assumed to cause a less-than-significant VMT impact.

While there may be periods of time in which the daily construction trips exceed the 110 daily trip threshold, these periods of time would be temporary and can be managed with the continued best practices and UCR standard conditions during construction activities.



REFERENCES

California Air Pollution Control Officers Association, *Quantifying Greenhouse Gas Mitigation Measures*, 2010

California Air Resources Board, *California Air Resources Board 2017 Scoping Plan-Identified VMT Reductions and Relationship to State Climate Goals*, January 2019

City of Riverside, *2025 General Plan*, 2007

City of Riverside, *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment*, July 2020

State of California, Governor's Office of Planning and Research, *Proposed Updates to the CEQA Guidelines, Final*, November 2017

State of California, Governor's Office of Planning and Research, *Technical Advisory on Evaluating Transportation Impacts in CEQA*, December 2018

Appendix A: Related Projects

Record Number Record Type Record Description

PEN18-0234	Entitlement	Extension of Time for Tract #35663 for Condo Map with 12 Units
PEN18-0237	Entitlement	T&M Prologis Krameria 1083 Administrative Plot Plan for revisions to color and materials for the Prologis Building No.1
PEN18-0242	Entitlement	Second Extension of Time for PA06-0092 a 130 Unit Senior Apartment Complex at 11636 HEACOCK ST
PEN18-0247	Entitlement	3rd Extension of Time for Tentative Tract Map No. 32215 for a Planned Unit Development (PUD) for 194 Condominium Units (R/T PA04-0032, TTR 32215 for 194 Condominium Units)
PEN18-0248	Entitlement	Extension of time for the Conditional Use Permit (CUP) for PA04-0198 for Planned Unit Development (PUD); TTR 32215 for 194 Condominium Units - R/T PA04-0198
PEN18-0252	Entitlement	Extension of Time for Conditional Use Permit (CUP) for TTM 32005, for a 213 single family residential subdivision located at the northwest corner of the intersections of Heacock Street, Perris Boulevard and Reche Vista Drive adjacent to Country Road (APNs: 471201008, 011) in the HR/R2 zones - R/T PA04-0018
PEN18-0254	Entitlement	Plot Plan for Highland Fairview Corporate Park Building #2 for an 750,000 square foot logistics building located at 29800 Eucalyptus Avenue (APNs: 488350027, 031, 035 and 036) - Related to PEN18-0191 & PEN18-0192 & 0193
PEN18-0257	Entitlement	Plot Plan with hearing for the development of a 3,011 square foot multi-tenant building for a restaurant and retail uses located at the northeast corner of Grant Street and Alessandro Boulevard; APNs 291200034, 035 & 036
PEN18-0259	Entitlement	Plot Plan for a 222,000 square foot industrial tilt up warehouse building located and at southeast of the Nandina Avenue and Indian Street; APN 316210032 & 033
PEN19-0023	Entitlement	Plot Plan No Hearing No Notice for New Commercial Retail Project at Stoneridge Towne Centre - Tractor Supply
PEN19-0047	Entitlement	Plot Plan for a 24,661 square foot KIA sales and service facility on 2 vacant parcels in the Auto Mall Specific Plan (SP209 Area C); located at the northeast corner of Moreno Beach and Auto Mall Drive (APNs: 488390015, 016)
PEN19-0057	Entitlement	Master Plot Plan for a multi-tenant building and gas station at the southeast corner of Redlands Boulevard and Alessandro Blvd APNs 478430029, 030 & 031
PEN19-0059	Entitlement	Conditional Use Permit for a gas station at the southeast corner of Redlands Boulevard and Alessandro Blvd APNs 478430030 & 031
PEN19-0065	Entitlement	Environmental Review for Outside Agency (MJA) - southerly under the Van Buren/Interstate 215 Interchange directly to the WMWD treatment plant approximately 8,600 linear feet (1.6 miles) from the beginning, paralleling the freeway and railroad tracks. The March JPA is planning to make a significant master planned infrastructure improvement to better serve the Meridian Specific Plan project. The proposed project is the construction of a new trunk sewer line from the Meridian Specific Plan project's southern boundary to the WMWD treatment plant.
PEN19-0075	Entitlement	Extension of Time for TTR 33436 (105 Units) located at northwest corner of Ironwood Avenue and Lasselle; APN 474200014 & 025
PEN19-0097	Entitlement	Phase I Environmental Site Assessment, 8.6+ acres of vacant land, North east corner of Cottonwood Avenue and Indian Avenues. APNs 482-161-021 through 024.
PEN19-0106	Entitlement	Outside Agency Review: Draft EIR for K4 Warehouse and Cactus Channel Improvements Project (MJA) - 35.4 acre project with 718,000 sq ft building/warehouse and installation of box culvert within the Cactus Channel located on the south side of Cactus Avenue between the 215 and Frederick St (just south of MV Boundary). NOP Review under PEN18-0231.
PEN19-0110	Entitlement	A Plot Plan with Hearing for The Courtyards at Cottonwood; an 81-unit gated affordable housing project on 8.6+ acres of vacant land located at the northeast corner of Cottonwood and Indian Avenues; Associated cases include PEN19-0108, GPA; PEN19-0109, CZ; and PEN19-0097 Expanded Environmental; APNs: 482-161-021, 022, 023 and 024.
PEN19-0127	Entitlement	Tentative Tract Map for a Planned Unit Development for attached, detached condos and apartment units located northeast of Elsworth Street and Cottonwood Avenue; APN 2911200114
PEN19-0150	Entitlement	PEN19-0150 Tentative Parcel Map 37750, PEN19-0151 General Plan Amendment, and PEN19-0152 Change of Zone on the southeast corner of Ironwood Avenue and Day Street APNs 291100054 & 055. No development is proposed at this time
PEN19-0154	Entitlement	Plot plan with hearing- Proposed Commercial Center on 2.45 acres of vacant land.(SW corner of Moreno Beach and John F. Kennedy Dr.) APN: 304240004
PEN19-0159	Entitlement	Extension of Time for Plot Plan with Hearing for a 426-Unit Multi-Family Project with Three Housing Types
PEN19-0160	Entitlement	Extension of Time for Variance for a 438-Unit Multi-Family Project with Three Housing Types
PEN19-0166	Entitlement	Master Plot Plan with Hearing for a 21,616 square foot commercial project on 2.33 acres at the northeast corner of Lasselle Street and Krameria Avenue (APN: 308040053)
PEN19-0168	Entitlement	Extension of time for Tentative Tract Map 32408 located at northwest corner of Bay Avenue & Moreno Beach Drive; APN 477190031
PEN19-0170	Entitlement	Plot Plan PEN19-0170 for industrial tilt up building #1 (404,423 SF) and Plot Plan PEN19-0171 for industrial tilt up building #2 (478,827 SF) for a total of 883,250 SF on a 43.49 acre site. Development of this project is subject to approval of a General Plan Amendment (PEN19-0172) from R5 to Business Park and a Zone Change from R5 to Light Industrial (L).
PEN19-0188	Entitlement	Tentative Tract Map 37725 for 66 SFR lots plus 2 lots for water quality basin located at the southwest corner of Perris Boulevard and Krameria Avenue; APNs 316-110-005, 006, 022, 023 & 024
PEN19-0191	Entitlement	General Plan Amendment for Industrial for a 1,328,853 square foot warehouse/distribution building located south of Eucalyptus Avenue, north of Encelia Avenue, between Quincy Street and Redlands Boulevard (APNs: 488340002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012)
PEN19-0201	Entitlement	Plot Plan (no notice/no hearing) for Resource Corporate Center, a 47,400 sq. ft. Industrial Building at NEC of Resource Way and Corporate (APNs: 297220006, 007, 0008) - Related to: PPA19-0008
PEN19-0202	Entitlement	Tentative Tract Map 37610 for 31 single family residential lots in the Residential 5 (R5) zone located west of Perris Boulevard on Hubbard Street. (APN: 475-060-001)
PEN19-0203	Entitlement	Second Extension of time for Tentative Tract Map 33607 (PA06-0096) and Plot Plan (PA06-0097) Iris Town Homes, for 52 unit condominium complex located on Perris Boulevard, south of Cactus Avenue and north of Delphinium Avenue. (APNs: 484-231-015, 484-231-016)
PEN19-0206	Entitlement	General Plan Amendment from Residential/Office (R/O) to Community Commercial (CC) for a proposed 3,000 square foot drive-thru restaurant & 3,000 square foot convenience store with ancillary gas fuel service and alcohol sales at the northeast corner of Dracaea Ave & Perris Blvd; APN No's 479120042, 043, 479120027, 479120029
PEN19-0217	Entitlement	Extension of Time for TTR 31517 for an 83 single-family residential subdivision located at the northwest corner of Kalmia Avenue and Lasselle Street - APNs: 474110014 and 474110004 (r/t PEN17-0137)
PEN19-0221	Entitlement	Administrative Plot Plan for a Platinum Athletics Prep Academy located at 13373 Perris Blvd Suite B110-114
PEN19-0234	Entitlement	TPM for Industrial Project for a 1,328,853 square foot warehouse/distribution building located south of Eucalyptus Avenue, north of Encelia Avenue, between Quincy Street and Redlands Boulevard (APNs: 488340002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012) - r/t PEN19-0193

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PEN19-0236	Entitlement	Second Extension of Time for Tract 34681 Previous approval PEN16-0143 (Plot Plan for 49 townhouses) & PA06-0052 (Tentative Tract 34681 for condominiums).
PEN19-0244	Entitlement	PEN19-0244 an Amended Tentative Tract Map 33436 application to reduce the number of lots from 105 to 104 and modify project grading, and PEN19-0245 a Variance application to increase the height of a combined retaining and freestanding wall from 8 feet to 21 feet adjacent to Palm Middle School. Project is located at the northwest corner of Ironwood Avenue and Lasselle Street; APNs 474200014 & 025
PEN19-0247	Entitlement	Request for 2nd Extension of Time for Tentative Tract Map 31206, located North of Manzanita Street, between Quincy Street and Redlands Boulevard- r/t PEN16-0162
PEN19-0250	Entitlement	Extension of Time for Tentative Tract Map 31394 for 78 single family homes located in the Residential 3 (R3) zone northeast of Pigeon Pass Road and Hidden Springs Drive (APN: 259230024) - r/t PA05-0189 / P16-086
PEN19-0255	Entitlement	Extension of time for tentative tract map 32460 subdivision of 57 single family residential lots
PEN19-0259	Entitlement	Extension of Time for PEN16-0098 Plot Plan for the construction of 64 room hotel located on Olivewood Plaza Drive; APN 292241003
PEN20-0005	Entitlement	Extension of Time for Plot Plan for 58 Multi-family Condominium Units "Chara Villa" (r/t PEN16-0119)
PEN20-0010	Entitlement	Plot Plan for a 2-Story Medical Office Building at TownGate Square located on the north side of Eucalyptus Avenue between Day Street and Memorial Way in the SP 200 Office Commercial (OC) zone (APN: 291650007)
PEN20-0015	Entitlement	Extension of Time for Legacy Park - Conditional Use Permit - PUD: Conditional Use Permit - Planned Unit Development for Legacy Park. Proposed subdivision of 53 acres in the R5 zone into 221 single family lots (4,000 and 5,000 SF lot minimums) with common open space amenities. (r/t PEN16-0094)
PEN20-0017	Entitlement	Tentative Parcel Map 36457 for Finance and Conveyance Purposes (TM 36457) for WLC located on the south side of SR60, between Redlands Boulevard and Gilman Springs Road
PEN20-0020	Entitlement	Administrative Plot Plan for a proposed plant nursery (wholesale distribution, growing and processing of nursery plant stock) to be located north of Kalmia Avenue at Steeplechase Drive in the Hillside Residential (HR) zone.
PEN20-0024	Entitlement	Substantial Conformance for The Reserve at Rancho Belago - Plot Plan Multi-Family Apartment Complex 358 Residential Units, Clubhouse Building, Pool, Open Space Recreation Area, Soccer Field and Dog Park; Previous Approval Plot Plan PEN16-0130. Project is located on John F. Kennedy Drive, East of Moreno Beach Drive; APN 304100007
PEN20-0037	Entitlement	Revised Tentative Parcel Map No. 37478 - PAMA Business Park (Alessandro Industrial Center) located south of Alessandro Boulevard, and north of Brodiaea Avenue (APN: 297170083) in the Business Park (BP) zone; R/T PEN18-0027
PEN20-0041	Entitlement	Plot Plan NN for an approximately 95,474 square foot warehouse building located on the south side of Nandina west of Perris; 316210035
PEN20-0042	Entitlement	EIS for Plot plan no hearing with notice for a 95,474 square foot tilt up warehouse building to be located on the south side of Nandina Ave, west of Perris Blvd; APN 316210035
PEN20-0046	Entitlement	Record Converted to PEN21-0074 - Master Plot Plan for the development of Village at Moreno Valley to be located at Northwest corner of Fir Avenue and Nason Street; APNs 487250005-007, & 010
PEN20-0057	Entitlement	Plot Plan with hearing for "Moreno II", an 49-unit apartment project in the Residential 15 (R15) zone located on Dracaea Avenue, west of Edgemont Street (APNs: 263132016, 017)
PEN20-0060	Entitlement	Plot Plan with hearing for the development of a 5,000 square foot golf clubhouse for Moreno Valley Ranch Golf Course at 28095 John F. Kennedy Drive, APN 304100007
PEN20-0063	Entitlement	Tentative Tract Map 37909 for a single family 81 lot subdivision located south of Iris Avenue, east of Perris Boulevard; APN 312020025
PEN20-0065	Entitlement	Tentative Tract Map 37909 and Conditional Use Permit for a Planned Unit Development, Iris Park Community, 81 lots, Iris Avenue, east of Perris Boulevard; APN 312020025
PEN20-0075	Entitlement	95 SFDUs
PEN20-0084	Entitlement	Outside Agency Review - MVUSD Notice of Intent (NOI) to Adopt a Mitigated Negative Declaration (MND) for new TK-5 elementary school (Moreno Elementary (MES) relocating from Cottonwood), Rainbow Springs special education activities will move into the old MES site, The vacated Rainbow Springs facility would be divided into two facilities: west and parts of the south half would accommodate the District's Professional Development Department; East and part of the north half would be renovated into office and clerical workstations for the District Security Department from the District Main Office. Finally, District office space vacated by the District Security Department would be occupied by the some of the remaining District staff.
PEN20-0085	Entitlement	Extension of Time - Conditional Use Permit for Mainstreet Transitional Care Facility for a 1-story 57,000 square foot, 90 room transitional care facility located on 7.12 acres at the southwest corner of Oliver St. and Filaree Ave. (APN: 486310042); related to PEN16-0153
PEN20-0109	Entitlement	Master Plot Plan for the development of 94,000 square feet of commercial buildings including fast food, service station with convenience store, office and retail located at the northeast corner Nason and Cactus - APN: 486290038
PEN20-0120	Entitlement	Tentative Parcel Map 37944, PEN20-0121 and PEN20-0124-Plot Plans for the development of a two industrial buildings approximately 290,729 and 98,877 for the Compass Danbe Centerpointe project located on the south side of Alessandro Blvd, between Frederick Street and Graham Street (APN: 297170002 and 297170003)
PEN20-0137	Entitlement	Plot Plan with hearing, General Plan Amendment, Specific Plan Amendment (SPRC to SP205 MU) for a 200,000 +/- square foot tilt up warehouse at the southeast corner of Ironwood Avenue and Heacock Street; APNs 481020029, 30, 34, 35, & 38
PEN20-0141	Entitlement	PEN20-0141 - Plot Plan with hearing for a 8,624 square foot multi-tenant retail building, fueling stations and canopy, a 999 square foot hydrogen equipment room, and a 2,485 square foot carwash building with 17 vacuum stations, PEN20-0142 - Conditional Use Permit for an auto service station with an approximately 5,006 square foot convenience store, and a 2,485 square foot carwash with 17 vacuum parking stations, located at the southeast corner of Sunnymead Blvd & Graham Street; APN 292-100-012.
PEN20-0144	Entitlement	Revision to Conditions of Approval for TTM 31590 - 96 lot subdivision located West of Moreno Beach Drive, between Alessandro Boulevard and Brodiaea Avenue (APNs: 486240002 and 486240011) - R/T PEN20-0075
PEN20-0148	Entitlement	A new 35,000 sq. ft. retail center located at The District, east of Heacock St. and south of Hemlock.
PEN20-0153	Entitlement	The proposed gateway air freight cargo center project, including the construction of industrial warehouse and maintenance building, both totaling approximately 271,340 square feet of building space. The 84.06 acre project site is located within the southeastern portion of the March Joint Powers Authority (March JPA) jurisdiction, within unincorporated Riverside County, California. More specifically, the Project site is located just south of the March Air Reserve Base, west of Heacock Street, and southwest of the intersection of Heacock Street and Krameria Avenue, in Moreno Valley, California.

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PEN20-0159	Entitlement	Draft EIR Oleander Business Park Project (Project) - construction and operation of approximately 710,736 square feet of warehouse/manufacturing uses within an approximately 93.85-acre site (gross), located within the Mead Valley area of Riverside County. Project Parcel 1 (approximately 20.90 acres) would be developed with approximately 363,367 square feet of warehouse/manufacturing uses. Project Parcel 2 (approximately 19.59 acres) would be developed with approximately 347,369 square feet of warehouse/manufacturing uses. Project Parcels 3 and 4, totaling approximately 53.36 acres (gross) would remain vacant.
PEN20-0160	Entitlement	General Plan Amendment for Moreno Valley Business Center - General Plan Amendment to change the land use designation from Residential 30 (R30) to Business Park/Light Industrial (BP/LI) to allow for construction of a 163,556 square foot tilt-up industrial building, including 10,000 square feet of office space and 23 loading docks at the northeast corner of Alessandro Boulevard and Day Street (multiple parcels) - r/t PEN20-0161 & 0162
PEN20-0172	Entitlement	Bradshaw Collection Project includes: Tentative Tract Map 37858 (PEN20-0172), Conditional Use Permit PEN20-0173, General Plan Amendment PEN20-0174 and Zone Change PEN20-0175 for the proposed subdivision of 4.8 acres located at the northeast corner of Cactus Avenue and Bradshaw Circle into 37 lots as a Planned Unit Development with unique zoning criteria for lot size, lot dimensions and setbacks. The proposed density requires a General Plan Amendment and Zone Change from R5 to R10.
PEN20-0173	Entitlement	Conditional Use Permit for Tentative Tract Map 37858 for a small lot Residential 10 (R10) multi-family project located northside of Cactus Avenue, East of Moreno Beach Drive APNs 478090018, 024 & 025
PEN20-0174	Entitlement	General Plan Amendment for Tentative Tract Map 37858 and Conditional Use Permit for a small lot Residential 10 (R10) multi-family project located northside of Cactus Avenue, East of Moreno Beach Drive APNs 478090018, 024 & 025
PEN20-0209	Entitlement	Plot Plan with hearing for a Multi-family project consisting of 426 units located on approximately 20.36 gross acres at the northeast corner of Iris Avenue & Emma Lane (APNs: 485220006, 007, 008, 009, 015, 043 and 044) "Perris at Pentecostal"
PEN20-0210	Entitlement	Tentative Parcel Map (Map # TBD) for the development of a Multi-family project consisting of 426 units at the northeast corner of Perris Blvd and Emma Lane (APNs: 485220006, 007, 008, 009, 015, 043 and 044) "Perris at Pentecostal"
PEN21-0021	Entitlement	Converted to PEN21-0216 - Tentative Tract Map No. 38064 for a multi-family project consisting of 426 units at the northeast corner of Perris Blvd and Emma Lane on approximately 20.36 gross acres (APNs: 485220006, 007, 008, 009, 015, 043 and 044) "Perris at Pentecostal" - R/T PEN20-0209
PEN21-0022	Entitlement	Plot Plan with hearing for a 91,012 square foot Industrial speculative tilt up warehouse located at the southeast corner of Krameria Avenue and Heacock Street; APN 316020052
PEN21-0028	Entitlement	Plot Plan with Hearing - Merwin Property Project, east of Merwin Street, between Alessandro Boulevard and Cactus Avenue (APNs 478240002, 003, 013, 014, 015, 021-023, 031-034) - r/t PEN19-0232, 0233
PEN21-0066	Entitlement	Conditional Use Permit CUP for Gateway Heights, a 108-unit Planned Unit Development (PUD) located north of Jennings Court, east of Morton Road (APN: 256150001) - related to PEN20-0095, PEN20-0096
PEN21-0074	Entitlement	Village at Moreno Valley - retail center at northwest corner Nason Street and Fir Avenue to include: Master Plot Plan PEN21-0074, Tentative Parcel Map 37896 (PEN20-0045), CUP - retail with drive-thru (PEN20-0049), CUP - fast food with drive-thru (PEN20-0050), CUP - service station (PEN20-0051), and CUP - fast food with drive-thru (PEN20-0053)
PEN21-0075	Entitlement	New Specific Plan - Rancho Bella Vista; including single-family, multi-family, and senior residential uses and open space development divided into 16 Planning Areas (PA) with a total of 745 dwelling units, combined with parks, functional open space areas, a multi-purpose trail system, and road improvements on approximately 150 acres of contiguous, undeveloped land; includes proposals for General Plan Amendment and Change of Zone (R/T PEN21-0080, 0081)
PEN21-0079	Entitlement	Plot Plan with Hearing for "Moreno Valley Business Center" - proposal to build a 164,187 square foot tilt-up industrial building, including 23 loading docks at the northeast corner of Alessandro Boulevard and Day Street on 8.06 acres (multiple parcels)(CONVERTED RECORD: PEN20-0162; related to PEN20-0160-0163)
PEN21-0096	Entitlement	Plot Plan with Hearing for new 7-Eleven gas station with convenience store (4,000 sf approx.) to be located at the northeast corner of Heacock & Hemlock - 12234 Heacock Street (APN: 481020036)
PEN21-0102	Entitlement	Plot Plan with Hearing - Heacock Logistics Parking Lot Project; the Applicant, Lawrence Family Trust, proposes to construct the Heacock Logistics Parking Lot Project (Project) which will be a semi-truck trailer parking lot with up to 220 parking stalls for semi-truck trailers and up to two (2) regular parking stalls on the subject site located on the east side of Heacock Street, northerly of the City limit on 9.5 acres (APN: 316211014) THE FOLLOWING ISSUES/NOTES DO NOT PRESUME PROJECT APPROVAL OR DISAPPROVAL.
PEN21-0105	Entitlement	Master Plot Plan / Building A and Plot Plans for Buildings B through F to allow demolition of an existing tire shop/auto repair building and construction of six (6) new industrial warehouse buildings on 11.2 acres of partially-developed land in the BP (Business Park) zone located on the east side of Old 215 Frontage Road, approximately 300 feet south of Bay Avenue (APNs 263-220-004, -008, -009, -017, -018, -023, -027, -028, -029, & 263-230-002)
PEN21-0112	Entitlement	Plot Plan for Courtyards at Cottonwood Phase II affordable apartment community for 32 units on 1.61 acres .
PEN21-0124	Entitlement	Plot Plan for proposed approximately 143,000 square foot speculative warehouse building with approximately 0.8-acre truck trailer parking lot located at the Southwest corner of Bay Ave and Day St; APNs 263230001, 003, 004, & 025 (Related to PEN21-0123- 0126)
PEN21-0127	Entitlement	Plot Plan & Tentative Condo Map 34544 for Cottonwood Village for the development of 23 4-plex buildings (92 attached multi-family units - located on the North side of Cottonwood East of Perris Blvd; APN 479140022
PEN21-0136	Entitlement	Tentative Tract Map 38123 to subdivide a portion of the property into 177 detached single-family lots and PEN21-0311 Conditional Use Permit for PUD for property located at Alessandro Blvd and Lasselle Street; APN 487470025, 028, 487574001 & 002 APN 487470025, 028
PEN21-0142	Entitlement	Plot Plan for a 4-Story, 126 room, Hilton Garden Inn Hotel related to CUP PEN21-0084 located at southwest corner of Gateway Drive and Memorial Way (APN: 291-650-004) (PEN20-0213)
PEN21-0145	Entitlement	Tentative Tract Map 38157 for a 98 single-family detached residential units on 9.96 net acres located at the northwest corner of Cactus Ave and Wilmot St.; APN 478100012
PEN21-0151	Entitlement	Plot plan for a proposed development of a (2) single story concrete tilt up warehouse buildings, each totaling approximately 21,700 sqft on a 2.32 acre site to be constructed as a single phase and PEN21-0172, Tentative Parcel Map 38208 subdividing the lot into two (2) parcels.
PEN21-0172	Entitlement	Tentative Parcel Map No. 38208 (2 lots) for a proposed development of a (2) single story concrete tilt up warehouse buildings, each totaling approximately 21,700 sqft on a 2.32 ac site to be constructed as a single phase. Each building provides 2 dock doors and 1 grade door with two separate points of access provided for fire dept. and vehicular access. The project is proposed on vacant land which sits between two developed parcels. The west parcel has an existing industrial project and east parcel has a car mechanic yard. To the north is the Perris Valley Storm Drain Channel and Residential. THE FOLLOWING ISSUES/NOTES DO NOT PRESUME PROJECT APPROVAL OR DISAPPROVAL - related to PEN21-0151

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PEN21-0180	Entitlement	Project includes the a proposal for 52 town-home within 26 Duplex residential buildings on 4.37 acres located at the southwest corner of Goya Avenue and Emma Lane on Assessor's Parcel Number 316020026 that will include the following applications: 1. A General Plan Amendment to change the designation from R-5 to Suburban Residential. 2. A Zone change from R-5 (Residential 5) District to R-15 (Residential 15) District. 3. A Tentative Tract Map for Condominium Purposes for the subdivision of 4.37 acres into 26 Condominium Lots. 4. A Plot Plan for development 52 town-homes within 26 Duplex residential buildings.
PEN21-0181	Entitlement	420 unit development on the corner of Alessandro Blvd and Darwin Drive. The project has 2 and 3 story residential buildings and a club house.
PEN21-0184	Entitlement	Tentative Tract Map 38236 and CUP for a Planned Unit Development for 204 new single-family residential units and public park on 26.74 gross acres located at the SW corner of Alessandro Blvd and Oliver Street; APN 486-260-003, -004, -005, & -009
PEN21-0195	Entitlement	Plot plan with hearing for the development of a 2-story 43,905 square foot tilt-up building at the southwest corner of Elsworth Street and Goldencrest Drive; APN 297130043 (related to PEN21-0196 CUP)
PEN21-0199	Entitlement	Tentative Tract Map 38237, proposed single family residential development of 67 lots located on Brodiaea Avenue and Oliver Street; APN 486240010; General Plan Amendment from R5 to R10; Change of Zone from R5 to RS10
PEN21-0201	Entitlement	Plot Plan with Hearing - Penske Truck Storage & Leasing; proposal to construct a 21,540 square foot truck leasing facility with a covered two-lane fuel dispensing and storage area; site will be paved for truck storage and circulation; located on east side of Old 215 Frontage Road (APNs: 297120002, 003; 297100066, 073, 076; 297102016, 017, 018) - (CONVERTED FROM PEN21-0025)
PEN21-0203	Entitlement	General Plan Amendment - Tract 38237 DR Horton for proposed single family residential development of 67 lots located on Brodiaea Avenue and Oliver Street; APN 486240010
PEN21-0206	Entitlement	Revised Tentative Tract Map 37725 - This project is located on the Southwest corner of Krameria and Perris Blvd. Foremost Pacific Group is proposing to amend the previously approved Tentative Tract 37725. Please see the Tentative Map for a list of amendment's. (r/t PEN19-0188/PEN21-0206)
PEN21-0208	Entitlement	Master Plot Plan (includes grocery store/market) for commercial center at the southwest corner of Perris & Iris - Commercial Center will include a Grocery Market, Car Wash, and two drive-thru restaurants; Parcels 1-3 of APN 316030014
PEN21-0213	Entitlement	Plot Plan for a 87 space semi-truck and trailer storage yard with a 3,034 square foot office building on a 4.80 gross acre site. Original Case PEN17-0114 - Per originally approved plan, now expired - 24811 Rivard Road (APN: 316190012)
PEN21-0219	Entitlement	Master Plot Plan (PEN21-0219) for a new commercial center that consists of; Plot Plan (PEN21-0220) for an 84 room three story hotel; Plot Plan (PEN21-0221) for 3 multi-tenant retail and restaurant buildings with a common courtyard; Conditional Use Permit (PEN21-0222) for a 2,815 s.f. a Coffee Shop Restaurant with Drive Through; Conditional Use Permit (PEN21-0223) for a 3,566 s.f. Service Station with convenience store and a 621s.f. carwash; Tentative Parcel Map 38211 (PEN21-0224) to merge 4 parcels into one and vacate Sherwin Ct.; Expanded Initial Study Review (PEN21-0225). The Project is located on the southwest corner of Nason St. and Cottonwood Ave. on approximately 8.2 acres. APNs: 487470014 & 032-034.
PEN21-0228	Entitlement	Extension of Time for Amended Plot Plan PEN17-0095 for the development of a 185,761 square foot retail store (Walmart) commercial development located at the southwest corner of Perris Boulevard and Gentian Avenue; APN 485-220-041 (Related to PEN21-0229 & 230)
PEN21-0233	Entitlement	Converted Record from PEN19-0127 for DPR Purposes: "Scottish Village" TTM and Amended CUP for PUD for attached, detached condos and apartment units located at the northeast of Elsworth Street and Cottonwood Avenue; APN 2911200114 - r/t PEN19-0127 - THE FOLLOWING ISSUES/NOTES DO NOT PRESUME PROJECT APPROVAL OR DISAPPROVAL.
PEN21-0238	Entitlement	Conditional Use Permit for a Planned Unit Development (PUD) for Tentative Tract Map 38157 122 single-family detached residential units located at the northwest corner of Cactus Ave and Wilmot St.; APN 478100012 & 035
PEN21-0239	Entitlement	Tentative Tract Map 38158 for a 122 single-family detached residential units on 15.55 net acres located at the southeast corner of Brodiaea Ave and Wilmot St.; APN 478120001, 002, 005 & 006
PEN21-0241	Entitlement	Tentative Tract Map 38159 for a 102 single-family detached residential units on 8.81 net acres located at the northwest corner of Cactus Ave and Redlands Blvd; APN 478110002, & 007
PEN21-0250	Entitlement	Plot Plan with hearing for a multifamily housing development of eight 2-story buildings with a total of 64 units at a partially developed lot (Moreno Rose) on Alessandro Boulevard; APN 479220024
PEN21-0256	Entitlement	Plot Plan for a proposed 5,000 sf convenience store, fueling station, Canopy with 8 MPDs, a 3,500 sf/100 ft long express conveyor belt car wash, a 176 sf trash enclosure and 33 parking stalls including ADA and EV Stalls located at the southeast corner of Alessandro Blvd and Moreno Beach Drive; APN 478070029
PEN21-0273	Entitlement	CONVERTED RECORD FOR DPR PURPOSES: PEN19-0040 Master Plot Plan for a Commercial Center, PEN19-0041 Plot Plan for a Car wash, PEN19-0042 Plot Plan for Office Building A, PEN19-0043 Plot Plan for Office Building B, PEN19-0044 CUP for Fuel Station, C-Store, and Drive-thru Restaurant Building, PEN19-0045 CUP for Retail/Drive-thru Building A, PEN20-0203 CUP for Retail/Drive-thru Building B, PEN20-0204 Plot Plan for the Sit Down Restaurant, PEN20-0205 Plot Plan for Bank Building, and PEN19-0039 Tentative Parcel Map. Project is located in the Neighborhood Commercial (NC) zone at the northwest corner of Alessandro Boulevard and Lasselle Street, on a 8.37 acre parcel (APN: 479631010) ***3rd REVIEW***
PEN21-0279	Entitlement	A Plot Plan request to construct a 173,385 square foot industrial warehouse building and a used vehicle inspection center consisting of a 190,416 sf vehicle inspection building with rooftop solar, a 15,423 sf maintenance building, above ground fuel tank, and large solar arrays along the north and east perimeter of the parcel.
PEN21-0290	Entitlement	Tentative Tract Map 38265 / CUP for a Planned Unit Development for the 236 single family lots consisting of 20 live-work units and 216 residential units (236 total lots) on a 20.01-gross acre site located on the north side of Alessandro Blvd between Morrison Street and Nason Street; APN 487470022

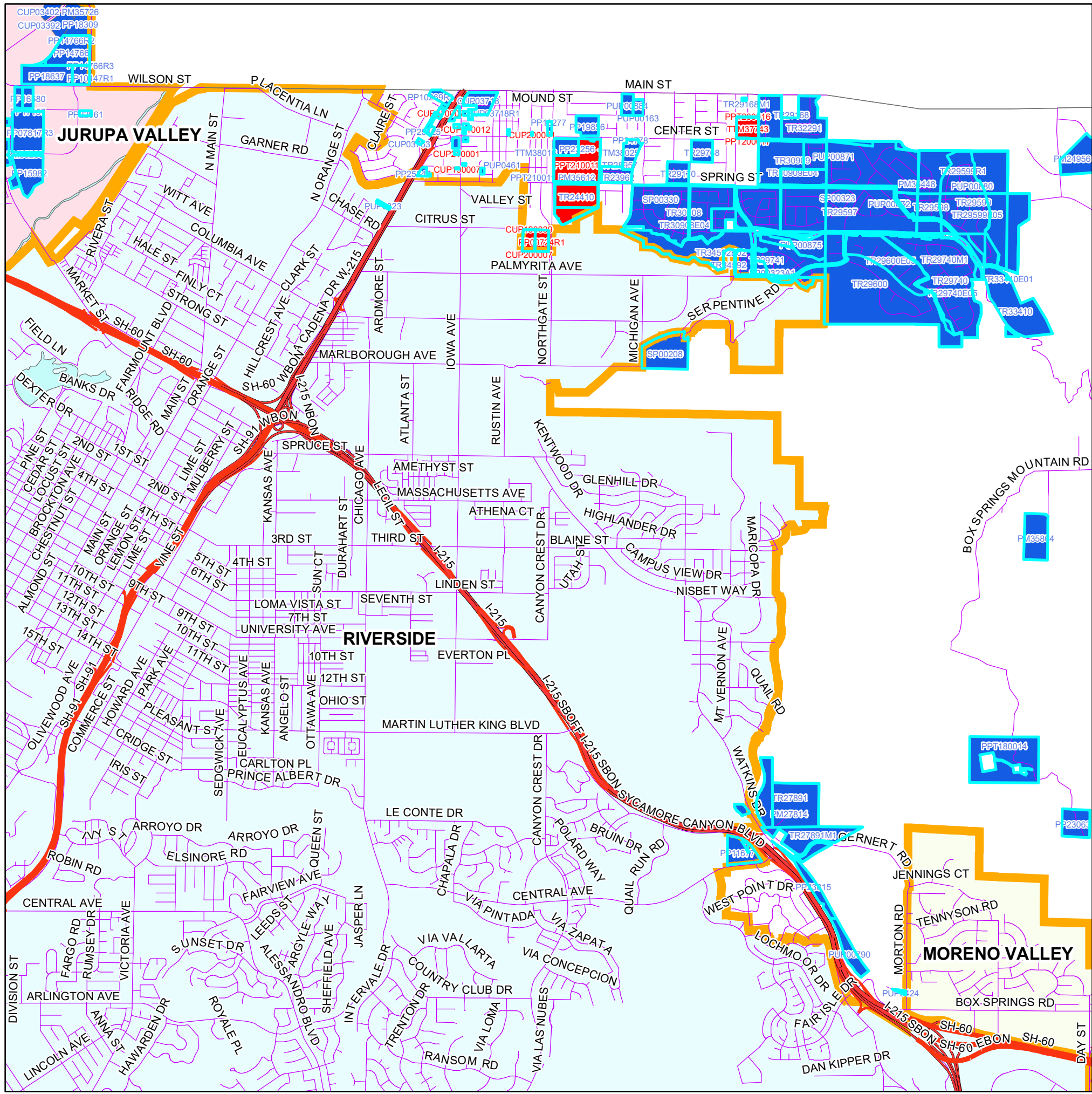
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PEN21-0295	Entitlement	The Project site is in the western portion of the March JPA planning area, west of Cactus Avenue's current terminus, to the east and south of the Mission Grove neighborhood, and to the north of the Orangecrest neighborhood in unincorporated Riverside County. The Project proposes to redesignate the site's land uses as follows: increase Parks/Recreation and Open Space (P/R/OS) from approximately 122 gross acres to 453.7 gross acres, eliminate approximately 622.5 gross acres of Business Park designated property, eliminate approximately 63 gross acres of Industrial designated property, and adopt the Meridian West Upper Plateau Specific Plan (SP-9) on approximately 351.0 gross acres, approving a mix of Business Park, Industrial, Mixed Use, Public Facility, Streets, Parks, and Open Space land uses. The Project also proposes to redesignate 2.9 acres of Business Park to Public Facility to accommodate an existing water storage tank operated by Western Municipal Water District.
PEN21-0300	Entitlement	Public Hearing Variance - Tract 37725; Requested Variance for the South Easterly combination wall per the conditions of approval for tract 37725. Please process this variance concurrently with the TTM revision (related to PEN21-0206)
PEN21-0307	Entitlement	Third Extension of Time for the Orchard Senior Apartments (PA06-0092, P15-068, PEN18-0242)
PEN21-0313	Entitlement	Tentative Parcel Map 38287 a seven (7) lot commercial subdivision. Located west of Oliver Street and north of Iris Avenue (APNs: 486310039, 041, 042) - r/t PPA20-0021
PEN21-0314	Entitlement	Time extension for approved New Development project of residential 12 units Condominium (PEN18-0234 and PEN18-0235).
PEN21-0325	Entitlement	Master Plot Plan (includes building #1) for the development of 7.94 gross acres (6.88 net acres) with the construction of two light industrial buildings (49,800sqft) with related paved access, parking, landscaping and drainage improvements located on Old 215 Frontage Road, south of Cottonwood, west of Edgemont St APNs 263190012, 014-019 & 036
PEN21-0326	Entitlement	Plot Plan for building #2 as shown on the Master Plot Plan PEN21-0325 project is located on Old Highway 215, south of Cottonwood, west of Edgemont Street; APNs 297190012, 014-019, & 036
PEN21-0329	Entitlement	Plot Plan with hearing for the demolition of an existing commercial site for the development of 3 story hotel at 24450 Sunnymead Blvd; APN 481101033
PEN21-0330	Entitlement	Specific Plan Amendment for SP 204 The Village to allow for hotels/motels in the Village Commercial Residential (VCR) for the development of a 3 story hotel at 24450 Sunnymead Blvd; APN 481101033
PEN21-0334	Entitlement	Specific Plan for The Moreno Valley Town Center (Nason Street Corridor) Specific Plan area is located on the northwest corner of the intersection of Nason Street & Alessandro Boulevard. The project area is bounded by Cottonwood Avenue to the north, existing residential development and a vacant property to the east, Nason Street to the west, and Alessandro Avenue to the south. The project requires approval of a zone change, specific plan and EIR and will include residential and non-residential components as follows: <ul style="list-style-type: none"> •350-800 homes on approximately 34.80 residential acres (10-20 du/ac density). •A neighborhood commercial center on approximately 16.5 acres with approximately 210,000 square feet of non-residential use. •Approximately 1.3 acre linear and 3.5-acre public park areas. •A 40,000 square foot site for a future approximately 30,000 square foot City Library •Utilities and infrastructure: 8 Acres Public Streets & Facilities
PEN21-0337	Entitlement	Extension of Time for Conditional Use Permit with hearing for a skilled nursing facility located on Alessandro Boulevard, east of Kitching Street; APN 479-230-018
PEN22-0004	Entitlement	Extension of Time Request for Tentative Tract Map 31206
PEN22-0009	Entitlement	Extension of Time - Moreno52/Iris Town Homes (3rd Extension of Time) - (TTM 33607) Please reference: LMP21-006, LGR21-0027, LGR21-0028, LCO21-0042/LST21-0049, LWQ21-0034, BAP21-4205, BFR21-0161, etc.
PEN22-0010	Entitlement	Tentative Condo Map 34544 & Plot Plan for Cottonwood Village for the development of 23 4-plex buildings (92 attached multi-family units-located on the North side of Cottonwood East of Perris Blvd; APN 479140022
PEN22-0011	Entitlement	Plot Plan with Hearing for the construction of a 950sf Dutch Bros. Coffee building with one drive-through window and dual queuing lanes for 23 cars and a by-pass lane, a walk-up window, associated parking, landscape improvements, and trash/recycle enclosure to be located on the northside of Hemlock Avenue, east of Pigeon Pass Road; APN 292280032
PEN22-0013	Entitlement	PEN22-0013 - Tentative Tract Map 38264 for the development of a 60 single-family detached lots. PEN22-0014 - Conditional Use Permit for Planned Unit Development. PEN22-0015 - General Plan Amendment from Residential 3 (R3) to Residential 5 (R5). PEN22-0016 - Change of Zone from Residential 3 (R3) to Residential (R5). PEN22-0017 - Expanded Initial Study. Located between Cottonwood Avenue and Bay Avenue east of Moreno Beach Drive; APN 478250001
PEN22-0022	Entitlement	Plot Plan with Hearing for Crystal Cove Apartments, a proposed 200-unit gated multi-family development located at the southwest corner of Alessandro Blvd and Lasselle Street (APN 484030028)
PEN22-0029	Entitlement	Plot Plan with hearing for the development of 88-unit Multi-family development located on the southside of Alessandro Blvd, west of Lasselle Street; APNs 484030013 & 026
PEN22-0034	Entitlement	Plot Plan with Hearing - Tuscany Village Apartments; to construct a 3-story, 13 unit apartment building to an existing 64 unit apartment complex (r/t PPA21-0040); located at 25055 Delphinium Avenue (APN: 484242020)
PEN22-0036	Entitlement	Extension of Time - 20 Unit Senior Project located at APN: 481-140-025 (r/t PEN16-0066)
PEN22-0040	Entitlement	Plot Plan with hearing to construct a new 3-story building containing 2 floors of office/warehouse space and 3rd floor roof parking. The uses will be administration, auto sales, auto parts sales, auto parts storage, auto service and vehicle storage to be located at the southeast corner of Eucalyptus Avenue and Auto Mall Drive; APNs 488-390-013 and 014.
PEN22-0051	Entitlement	Tentative Parcel Map No. 38395 - Patriot Partners Alessandro and Heacock (r/t PPA21-0051) for construction of two (2) new one-story + mezzanine, construct tile-up warehouse/distribution facilities with electrical and plumbing services, exterior lighting, landscaping & irrigation, trash enclosure, concrete screen walls and sliding/swing metal gates - located at the southwest corner of Alessandro Boulevard and Heacock Street (APN: 297170090)
PEN22-0058	Entitlement	Requesting an Extension of Time for PEN18-0211, A 272 Unit Multi Family Project located at Alessandro and Perris Boulevard APNs: 484-020-006, 018 and 025
PEN22-0061	Entitlement	Tentative Parcel Map 38420 for Moreno Valley Mall located at 22500 Town Circle; APNs 291110032-035. The total site is 80.1 acres and the redeveloped area is 58.6 acres which is proposed to be subdivided into 22 lots. Improvements will include residential units, hotels, office space, and proposed food markets with associated parking and parking structures.
PEN22-0068	Entitlement	Rancho Bella Vista in Moreno Valley Financial TTM 38370 consists of a total of 13 parcels on approximately 151 acres located at the northeast corner of Moreno Beach Drive and Cottonwood Avenue; APNs 478020023-027, 030, 478030031 & 488330016 (r/t PEN21-0075, 0080, 0081)

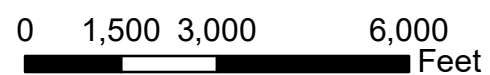
Record Number Record Type Record Description

PEN22-0071	Entitlement	Plot Plan with hearing and Conditional Use Permit for the development of a 4-story, 93-room Towne Place Suites Hotel totaling 53,488 square feet to be located on a 1.75-acre site in the Towngate Square Shopping Center, located on the north side of Eucalyptus Avenue, east of Day Street (APN 291-650-034).
PEN22-0088	Entitlement	Plot Plan with Hearing for a 31,375 square foot spec industrial tilt up building to be located at the southeast corner of Veterans Way and Calle San Juan De los Lagos (APN 297140044) - related to Pre-App Review PPA21-0049
PEN22-0090	Entitlement	Extension of time for Tract 32716 a 57 lot single-family residential subdivision. located at *** APN 316160008
PEN22-0091	Entitlement	CUP (PUD) for Tentative Tract Map 38236, 204 Single Family Residential Dwelling Units.
PEN22-0092	Entitlement	Plot Plan with Hearing for Chase MV1 (PPA21-0052): NEW 26,300 SF INDUSTRIAL BUILDING WITH A FOOTPRINT OF 24,600 SF, 1,400 SF 1ST FLOOR OFFICE, 1,700 SF MEZZANINE, 23,200 SF WAREHOUSE, 2 DOCK SPACES, 2 TRAILER SPACES, ONE ON GRADE OVERHEAD DOOR, 35 TOTAL PARKING SPACES, TRASH ENCLOSURE, LANDSCAPED YARD, & SITE LIGHTING, ON 1.31 ACRE SITE. THE NEW BUILDING WILL BE REPLACING THE SOUTHERN PARKING LOT OF AN EXISTING 27,250 SF BUILDING. THERE WILL BE A RECIPROCAL PARKING/ACCESS AGREEMENT BETWEEN THE TWO PROPERTIES.
PEN22-0095	Entitlement	Final Extension of Time for Tract Map 37643 (PEN18-0065)
PEN22-0109	Entitlement	Plot Plan with hearing for the development of Rocas Grande II a 460 unit multi-family apartment complex on 18.39 acres located at , " APNs 486-280-002 and 486-280-004 in the Downtown Center District
PEN22-0111	Entitlement	T&M - Highland Fairview - Plot Plan for Building 1 at World Logistics Center. Multiple APN Numbers - 488-350-003, 488-350-004, 488-350-005, 488-350-015
PEN22-0112	Entitlement	T&M - Highland Fairview - Plot Plan for Building 2 at World Logistics Center. Multiple APN Numbers: 488-350-003, 488-350-004, 488-350-005, 478-220-007, 478-220-005, 478-220-006, 478-220-010, 478-220-090
PEN22-0113	Entitlement	T&M - Highland Fairview - Plot Plan for Building 3 at World Logistics Center. Multiple APN Numbers: 478-220-018, 478-220-019, 478-220-020, 478-220-010, 478-220-009, 478-220-029, 478-220-030
PEN22-0114	Entitlement	T&M - Highland Fairview - Plot Plan for Building 4 at World Logistics Center (APNs: 478-220-018, 478-220-019, 478-220-020, 478-220-021, 478-220-022)
PEN22-0115	Entitlement	T&M - Highland Fairview - Plot Plan for Building 5 at World Logistics Center. Multiple APN Numbers: 478-220-021, 478-220-022, 478-220-023, 478-230-001, 478-230-002, 478-230-003, 478-230-004, 478-210-054, 478-210-055
PEN22-0116	Entitlement	T&M - Highland Fairview - Plot Plan for Building 10 at World Logistics Center. Multiple APN Numbers: 478-230-007, 478-230-004, 478-230-005, 478-230-019, 478-230-011, 478-230-009, 478-230-010, 478-230-008
PEN22-0117	Entitlement	T&M - Highland Fairview - Plot Plan for Building 11 at World Logistics Center
PEN22-0118	Entitlement	T&M - Highland Fairview - Plot Plan for Building 12 at World Logistics Center. Multiple APN Numbers: 478-240-025, 478-240-024, 478-240-006, 478-240-007, 478-240-005, 478-240-008
PEN22-0119	Entitlement	T&M - Highland Fairview - Plot Plan for Building 19 at World Logistics Center. Multiple APN Numbers: 478-070-010, 422-070-021
PEN22-0120	Entitlement	T&M - Highland Fairview - Plot Plan for Building 20 at World Logistics Center. Multiple APN Numbers: 422-130-001, 422-080-003
PEN22-0121	Entitlement	T&M - Highland Fairview - Plot Plan for Building 27 at World Logistics Center. Multiple APN Numbers: 422-130-001, 422-130-002, 422-130-003, 422-110-001
PEN22-0122	Entitlement	T&M - Highland Fairview - Plot Plan for Building 28 at World Logistics Center. Multiple APN Numbers: 422-130-002, 422-130-003, 422-260-004, 423-260-005
PEN22-0123	Entitlement	T&M - Highland Fairview - Plot Plan for Building 29 at World Logistics Center. Multiple APN Numbers: 423-260-005, 423-310-001
PEN22-0124	Entitlement	T&M - Highland Fairview - Plot Plan for Building 6 at World Logistics Center. Multiple APN Numbers: 488-350-005, 488-350-006, 488-350-007, 488-350-008, 488-350-009, 488-350-010, 488-350-015, 488-350-019, 488-350-021, 488-350-023, 488-350-025
PEN22-0125	Entitlement	T&M - Highland Fairview - Plot Plan for Building 7 at World Logistics Center. Multiple APN Numbers: 478-220-001, 478-220-002, 478-220-003, 478-220-004, 478-220-005, 478-220-010, 478-220-011, 478-220-012, 478-220-013, 478-220-014
PEN22-0126	Entitlement	T&M - Highland Fairview - Plot Plan for Building 13 at World Logistics Center. Multiple APN Numbers: 422-070-014, 422-070-017, 422-070-018, 422-070-019, 422-070-020, 422-070-030, 422-070-031, 422-070-033, 422-070-034, 422-070-035, 422-070-036, 422-070-037
PEN22-0127	Entitlement	TTM 38459 for condo purposes in support of PEN21-0066. Project proposes 108 condo units on approximately 16.59 acres and a Remainder Parcel containing 15.97 acres to be zoned for Open Space located located north of Jennings Court, east of Morton Road (APN: 256150001) - related to PEN20-0095, PEN20-0096
PEN22-0130	Entitlement	Tentative Tract Map 38443 consisting of 133 single-family lots located south side of Cottonwood Avenue East of Nason Street APN 488190005 & 027
PEN22-0133	Entitlement	General Plan Amendment to increase density to RS10 for Tentative Tract Map 38443 consisting of 133 single-family lots located south side of Cottonwood Avenue East of Nason Street APN 488190005 & 027
PEN22-0137	Entitlement	Conditional Use Permit for a Planned Unit Development for Tentative Tract Map 38442 consisting of 108 Single Family lots, located between Bay Avenue and Alessandro Blvd east of Nason Street; APNs 488210006, & 020
PEN22-0144	Entitlement	Plot Plan with Hearing to redevelop an existing site with a 163,242 +/- square foot distribution warehouse on approximately 8 acres; located at 14050 Day Street (APN 297130036)
PEN22-0156	Entitlement	Tentative Tract Map 38458 for the subdivision of 9.18 acres into 78 single-family detached lots to be located on the southside of Iris Avenue, East of Indian Street (APNs 31603002, 018, & 019).
PEN22-0161	Entitlement	Plot Plan with hearing (Ref: PPA22-0014) for a new spec. 32,510 square foot industrial building at a 1.53 net acre site located at APN 312270001
PEN22-0162	Entitlement	Conditional Use Permit for a Planned Unit Development at Tentative Tract Map 38237, proposed single family residential development of 67 lots located on Brodiaea Avenue and Oliver Street; APN 486240010; General Plan Amendment from R5 to R10; Change of Zone from R5 to RS10
PEN22-0163	Entitlement	NEW 35,225 SF INDUSTRIAL BUILDING WITH A FOOTPRINT OF 32,470 SF, 2,245 SF 1ST FLOOR OFFICE, 2,755 SF MEZZANINE OFFICE, 30,225 SF WAREHOUSE, TRUCK YARD WITH FOUR (4) DOCK HIGH DOORS & TRAILER PARKING, ONE (1) OHD RAMP, CONCRETE SCREEN WALLS & SLIDING GATE, WITH A TOTAL PARKING OF 50 SPACES, PLUS 2 LOADING SPACES, COVERED BREAK AREA, TRASH ENCLOSURE, LANDSCAPED YARD, & SITE LIGHTING, ON 2.31 NET ACRE SITE. Ref: Record PPA22-0017.

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-  Cities (Outline)
-  Active Major Cases (CUP, PM, PP, PUP, SP, TR)
-  Approved Major Cases (CUP, PM, PP, PUP, SP, TR)



Active Cases as of 8/22/2022

<u>CASE NAME</u>	<u>STATUS</u>	<u>APPLIED DATE</u>	<u>APPROVAL DATE</u>	<u>EXPIRED DATE</u>
CUP03703	LDC REVIEW	2/19/2014		
MENAGERIE FOR HOUSING EXOTIC AND DOMESTIC ANIMALS. APPROXIMATELY 600 MAMMALS, BIRDS, REPTILES, AMPHIBIANS, AND FISHES FOR EDUCATION PURPOSES IN CONJUNCTION WITH LOCAL HIGH SCHOOLS AND THE MORENO VALLEY UNIFIED SCHOOL DISTRICT.				
CUP190007	LDC REVIEW	7/2/2019		
RETAIL - CANNABIS RETAIL STORE .				
CUP190039	LDC REVIEW	10/24/2019		
MICROBUSINESS - NEW 22,000 SF COMMERCIAL BUILDING FOR A CANNABIS MICRO BUSINESS FACILITY.				
CUP200007	LDC REVIEW	4/13/2020		
CULTIVATION - NEW 22,000 SF COMMERCIAL BUILDING FOR AN INDOOR CANNABIS CULTIVATION FACILITY.				
CUP200030	LDC REVIEW	9/10/2020		
CONDITIONAL USE PERMIT FOR THE OFF-SITE SELLING OF BEER AND WINE FROM THE CONVENIENCE STORE LOCATED WITHIN THE COMMERCIAL PORTION (PPT200016) OF THE PROJECT SITE ON PARCEL 3.				
CUP200041	LDC REVIEW	10/14/2020		
RETAIL - CANNABIS RETAIL STOREFRONT WITH DELIVERY - REMODEL/REMOVE PORTION OF EXISTING BUILDING. BUILD 725 SQ.FT. BUILDING- KEEP EXISTING FRONT WITH SIDE FA?ADE WALLS, 3 (1-ADA) PARKING STALLS FOR CANNABIS RETAIL STORE.				
CUP210001	LDC REVIEW	2/1/2021		
RETAIL COMMERCIAL CANNABIS BUSINESS (DISPENSARY)FLYT MANAGEMENT LLC. IN AN EXISTING 2,250 SQ. FT. COMMERCIAL BUILDING.				
CUP210007	LDC REVIEW	3/10/2021		
RETAIL - PROPOSAL TO UTILIZE AN EXISTING BUILDING TO ESTABLISH A CANNABIS STOREFRONT WITH DELIVERY ON 0.65 ACRE LOT WITH PARKING AND LANDSCAPING.				
CUP210012	HOLD	4/14/2021		
CULTIVATION - CANNABIS CULTIVATION BUSINESS				
PP09724R1	LDC REVIEW	2/14/2012		
ADD TRUCK SCALE,6 NEW LOADING WELLS, LS, REPV PKG, ROLLING GATES AND BLOCK WALLS AT 4 EXISTING DRIVEWAYS.				
PPT200016	LDC REVIEW	9/10/2020		
FOR THE SITE DESIGN AND DEVELOPMENT OF THE COMMERCIAL PORTION OF THE PROJECT SITE. THE PROPOSED DEVELOPMENT INCLUDES THE CONSTRUCTION OF A TAKE-OUT/DRIVE THROUGH FOOD ESTABLISHMENT LOCATED ON PARCEL 2 OF TTM37743. PARCEL 3 WILL INCLUDE THE CONSTRUCTION OF A GAS STATION WITH AND A CONVENIENCE STORE.				
PPT200017	LDC REVIEW	9/10/2020		
FOR THE SITE DESIGN AND DEVELOPMENT OF THE RESIDENTIAL PORTION OF THE PROJECT SITE WITHIN PARCEL 1 WHICH WILL INCLUDE THE CONSTRUCTION OF 52 CONDOMINIUM UNITS, OPEN SPACE AREA AND A WATER QUALITY BASIN.				

Active Cases as of 8/22/2022

<u>CASE NAME</u>	<u>STATUS</u>	<u>APPLIED DATE</u>	<u>APPROVAL DATE</u>	<u>EXPIRED DATE</u>
PPT210011	HOLD	3/12/2021		
PLOT PLAN TO DEVELOP 461 'PASEO' TOWNHOMES AND 385 'YARD' TOWNHOMES FOR A TOTAL OF 846 DWELLING UNITS IN 4 PHASES. PHASE 1A PROPOSES 141 'PASEO' TOWNHOMES AND 125 'YARD' TOWNHOMES FOR A TOTAL OF 266 DWELLING UNITS; PHASE 1B PROPOSES 123 'PASEO' TOWNHOMES AND 100 'YARD' TOWNHOMES FOR A TOTAL OF 223 DWELLING UNITS; PHASE 2A PROPOSES 114 'PASEO' TOWNHOMES AND 80 'YARD' TOWNHOMES FOR A TOTAL OF 194 DWELLING UNITS; AND PHASE 2B PROPOSES 83 'PASEO' TOWNHOMES AND 80 'YARD' TOWNHOMES FOR A TOTAL OF 163 DWELLING UNITS. SPECIAL MULTI FAMILY APPLICATION AND TENTATIVE TRACT MAP APPLICATION LOCATED WITHIN A 57.4-ACRE PORTION OF NEIGHBORHOOD 3 (CENTER/SPRING STREET) WITHIN THE BOUNDARIES OF THE HIGHGROVE AREA PLAN.				
TTM37743	LDC REVIEW	5/2/2019		5/1/2022
SCHEDULE ?A? CONDO MAP THAT INCLUDES THE SUBDIVISION OF 9.17 GROSS ACRES INTO THREE LOTS.				

Approved Cases as of 08/22/2022

<u>CASE NAME</u>	<u>STATUS</u>	<u>APPLIED DATE</u>	<u>APPROVAL DATE</u>	<u>EXPIRED DATE</u>
CUP00997	APPROVED	2/20/2008		
CASE DESCRIPTION PROPOSAL FOR MOBILE HOME PARK				
CUP02600	APPROVED	12/22/2000		
CUP02971R1	APPROVED	2/8/2005		11/20/2009
EXTEND LIFE OF CUP02971 & ADD 4500SF METAL BLDG				
CUP03178R1	APPROVED	2/22/2010		9/29/2043
EXPANDING RECYCLING BUSINESS TO ADJACENT LOT				
CUP03251	APPROVED	11/10/1997		8/18/2018
ARCO GAS/MINI MART/BEER & WINE				
CUP03254	APPROVED	11/24/1997		11/24/2005
CONCRETE BATCH PLANT				
CUP03328	APPROVED	11/21/2000		
USED CAR SALES LOT				
CUP03354	APPROVED	9/11/2001		
ADD BEER AND WINE SALE TO MARKET				
CUP03424	APPROVED	2/17/2004		6/22/2006
ADD BEER/WINE/LIQUOR SALES TO EXISTING MARKET				
CUP03434	APPROVED	7/1/2004		11/1/2008
CONCRETE/GUNITE BATCH PLANT & RELATED TRUCKING OPE RATION AND MAINTENANCE				
CUP03452	APPROVED	2/2/2005		11/1/2008
ALLOW AUTO SALES, SMOG AND SERVICES				
CUP03463	APPROVED	6/8/2005		7/25/2009
REQUEST TO LEGALIZE AN EXISTING AUTO DEALERSHIP				
CUP03522	APPROVED	8/10/2006		6/17/2011
PROPOSES A TIRE SHOP CONSISTING OF A 1,419 SQ. FT. BUILDING WITH TWO SERVICE BAYS, 7 PARKING SPACES, AND PERIMETER LANDSCAPING				
CUP03564	APPROVED	9/12/2007		6/2/2012
CUP03564 PROPOSES TO LEGALIZE AN UNPERMITTED AND O PERATING CONTRACTOR'S STORAGE YARD FOR A CONSTRUCT ION AND ROOFING COMPANY TO STORE EQUIPMENT AND MAT ERIALS INCLUDING SIX (6) STANDARD PARKING SPACES A ND 2,025 SQUARE FEET OF EXISTING AND PROPOSED LAND SCAPING AREA ON A 1.4 GROSS ACRE SITE. THE EXISTIN G 1,224 SQUARE FOOT OFFICE BUILDING AND TWO (2) ST ORAGE BUILDINGS TOTALING 1,500 SQUARE FEET WILL BE PERMITTED AND SUBSEQUENTLY REDEVELOPED. THE CONV ERSION OF THE EXISTING SMALL STRUCTURES FROM ONE U SE TO ANOTHER WILL HAVE MINOR MODIFICATIONS IN THE EXTERIOR OF THE STRUCTURE.				
CUP03567	APPROVED	9/26/2007		5/13/2011
CONDITIONAL USE PERMIT NO. 3567 PROPOSES TO CONSTR UCT A 20,127 SQ. FT. SINGLE-STORY STRUCTURE FOR A VETERINARY HOSPITAL ON A 2.25 GROSS ACRE LOT. THE PROPOSAL CONSISTS OF AN EXISTING 8,314 SQ. FT. VET ERINARY HOSPITAL TO REMAIN, 13,478 SQ. FT. OF LAND SCAPING (14%), AND 104 PARKING SPACES INCLUDING 5 ACCESSIBLE PARKING SPACES FOR PERSONS WITH DISABIL ITIES.				
CUP03577	APPROVED	12/19/2007		7/21/2011
CONVENIENCE STORE AND GAS STATION WITH CANOPY				

Approved Cases as of 08/22/2022

<u>CASE NAME</u>	<u>STATUS</u>	<u>APPLIED DATE</u>	<u>APPROVAL DATE</u>	<u>EXPIRED DATE</u>
CUP03582	APPROVED	2/7/2008		5/13/2012
CONDITIONAL USE PERMIT NO. 3582 IS TO PERMIT THE SALE OF BEER AND WINE FOR CONSUMPTION OFF THE PREMISES WHERE SOLD (ABC TYPE-20). THE PROJECT SITE CONSISTS OF AN EXISTING 1,208 SQ. FT. CONVENIENCE STORE AND FIVE PARKING SPACES INCLUDING ONE ACCESSIBLE PARKING SPACE FOR PERSONS WITH DISABILITIES.				
CUP03665	APPROVED	3/31/2011		6/14/2013
SUPERMARKET, DRUG STORE, AND SIX RETAIL SHOPS				
CUP03718	APPROVED	1/16/2015		5/12/2023
REPLACE 20,623 SF. BLDG W/ 40,611 SF. BLDG CONTAINING OFFICES, SHOP SPACE, PARTS & STORAGE FOR A HEAVY DUTY EQUIP. SALES & RENTAL FACILITY. 2 EXISTING BLDGS IDENTIFIED AS MAIN SHOP (7,720 SF. & TRUCK SHOP (9,735 SF. WILL REMAIN. THE PROJECT WILL HAVE 2 PHASES.				
CUP03718R1	APPROVED	10/7/2016		
EXIST HEAVY DUTY EQUIP LOT PROPOSES ADDITIONAL LOT				
CUP03750	APPROVED	6/21/2016		
CUP FOR AUTO SALES AND CAR RENTAL				
CUP03761	APPROVED	10/25/2016		
76 RETAIL GAS STATION AND CONVENIENCE STORE				
CUP03763	APPROVED	10/28/2016		
GAS STATION W/CONVENIENCE STORE AND WINE LICENSE FOR OFFSITE USE				
CUP190008	APPROVED	7/2/2019		
RETAIL - COMMERCIAL CANNABIS RETAIL STORE LOCATED WITHIN AN EXISTING 2,365 SQ. FT. BUILDING AND THE ACCOMPANYING OFFICE SPACE WILL BE LOCATED WITHIN THE ADJACENT, EXISTING 1,437 SQ. FT. BUILDING.				
CUP190016	APPROVED	8/8/2019		
RETAIL - CANNABIS RETAIL STORE FRONT.				
CUP190045	APPROVED	10/24/2019	9/28/2021	
RETAIL - CANNABIS RETAIL FACILITY IN AN EXISTING 13,559 SQ. FT. BUILDING AS A STOREFRONT FOR A RETAIL CANNABIS BUSINESS AND DISTRIBUTION FACILITY. THE PROPOSED CANNABIS RETAIL STOREFRONT WILL OCCUPY 4,137 SQ. FT. AND THE DISTRIBUTION FACILITY WILL OCCUPY THE REMAINING 9,422 SQ. FT.				
CUP200010	APPROVED	5/28/2020	8/4/2021	
RETAIL - CANNABIS RETAIL STORE CONSISTING OF A STOREFRONT RETAIL CANNABIS BUSINESS AND DELIVERY SERVICE THAT INCLUDES TWO (2) PARCELS WITH ONE (1) EXISTING 3,952 SQ. FT. COMMERCIAL BUILDING OF TWO (2) SUITES AND ACCOMPANYING PARKING LOT.				
CUP200022	TENT. APPROV	7/27/2020		
PROPOSAL TO ENTITLE AN EXISTING RECYCLING PROCESSING FACILITY USE WITH OUTSIDE SCRAP METAL STOCKPILES AND PREPARATION AREAS LOCATED ON THE WESTERN PORTION OF THE SITE SHIELDED BY AND WITHIN THE EXISTING 78,643 SQ. FT. BUILDING WITH 54 PARKING SPACES, PERIMETER FENCING AND GATES, AND UPDATED LANDSCAPING.				

Approved Cases as of 08/22/2022

<u>CASE NAME</u>	<u>STATUS</u>	<u>APPLIED DATE</u>	<u>APPROVAL DATE</u>	<u>EXPIRED DATE</u>
CUP200024	APPROVED	8/17/2020		
<p>CASE DESCRIPTION COMMERCIAL CANNABIS RETAIL PROPOSAL TO ALTER AN EXISTING TWO-STORY, 4,150 SQ. FT. BUILDING FOR A STOREFRONT CANNABIS RETAILER AND DELIVERY SERVICE. THE ALTERATIONS TO THE EXISTING BUILDING WOULD INCLUDE THE DEMOLITION OF THE INTERIOR SECOND FLOOR AND THE REMOVAL OF EXTERIOR STAIRS FOR THE SECOND FLOOR OF THE BUILDING. OTHER EXISTING STRUCTURES AND QUONSET HUT ON SITE WOULD BE REMOVED TO MAKE SPACE FOR ADDITIONAL VEHICLE PARKING. AFTER THE DEMOLITION WORK TO THE BUILDING, THE PROPOSED CANNABIS RETAILER WOULD NOW BE 3,978 SQ. FT. AND WOULD CONSIST OF FLOOR AREAS INCLUDING: A SECURED CHECK-IN, CANNABIS SALES, OFFICES, RECEIVING, INVENTORY, VAULT, CLONE ROOM, BREAKROOM, AND RESTROOMS. THE PROJECT WOULD PROVIDE 19 VEHICLE PARKING SPACES, INCLUDING ONE ACCESSIBLE SPACE FOR PERSONS WITH DISABILITIES, A SECURED BIKE RACK AREA, AND A LOADING AREA LOCATED AT THE REAR OF THE BUILDING. UPGRADED LANDSCAPING AND A TRASH ENCLOSURE ARE ALSO PROPOSED.</p>				
CUP210012	HOLD	4/14/2021		
<p>CULTIVATION - CANNABIS CULTIVATION BUSINESS</p>				
PM22518	APPROVED	10/29/1987		9/20/1995
<p>DIVIDE 19.9 ACRES INTO 3 LOTS EA 32092 EXT 130, EXT 363, EXT 634</p>				
PM23357	APPROVED	3/30/1988		9/17/1999
<p>DIVIDE 19.90 ACRES INTO 2 PARCELS EA 32693, CZ 5158 CFG 803</p>				
PM24209	APPROVED	2/1/1989		5/22/1998
<p>DIVIDE 85.49 ACRES INTO 6 INDUSTRIAL PARCELS EA 33540, CZ 5388 EXT 526, EXT 865, EXT 1149</p>				
PM24956	APPROVED	11/1/1989		1/15/2001
<p>DIVIDE 20 ACRES INTO 4 PARCELS DIVIDE 20 ACRES INTO 4 PARCELS EA 34441, CZ 5635 EXT 729, EXT 1115</p>				
PM26394	APPROVED	7/23/1990		5/19/1999
<p>DIVIDE 2.04 ACRES INTO 4 PARCEL DIVIDE 2.04 ACRES INTO 4 PARCELS EA 35362, PP 12153 CFG 14, EXT 1026</p>				
PM26654	APPROVED	10/2/1990		4/30/1996
<p>DIVIDE 3.3 ACRES INTO 2 LOTS IN SP 210 DIVIDE 3.3 ACRES INTO 2 INDUSTRIAL PARCELS EA 35522 EXT 866, SP 210</p>				
PM27814	APPROVED	9/9/1993		3/8/1999
<p>DIVIDE 79.3 ACRES INTO 2 PARCELS W/1 REMAINDER DIVIDE 79.3 ACRES INTO 2 FINANCING PARCELS PLUS ON E REMAINDER PARCEL OF 9.9 ACRES. SP 250</p>				
PM28705	APPROVED	11/12/1997		
<p>DIVIDE 4.57 ACRES INTO 4 COMML LOTS</p>				
PM32971	APPROVED	10/12/2004		12/12/2013
<p>SCHED I DIVISION OF 300 AC INTO SIX 20+AC PARCELS.</p>				
PM33314	APPROVED	1/14/2005		11/1/2008
<p>SUBDIVIDE 7.9 AC INTO 2 PARCELS TO BE INCORPORATED INTO TR32972 AND FURTHER FUTURE SUBDIVISIONS</p>				
PM33466	APPROVED	8/31/2005		7/25/2009
<p>SCH E MAP SUBDIVIDE 4.18 AC INTO 2 COMMERCIAL LOTS</p>				
PM33617	APPROVED	5/26/2005		3/4/2012
<p>SCHEDULE E SUBDIVISION OF 11.3 ACRES INTO 7 INDUSTRIAL / COMMERCIAL PARCELS</p>				
PM34010	APPROVED	3/23/2007		5/20/2013
<p>SUBDIVIDE 4 AC INTO 2 TWO AC LOTS</p>				
PM34020	APPROVED	10/13/2005		9/12/2010
<p>SCHED F DIVISION INTO TWO LOTS 2X7630 SFR</p>				

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PM35267	APPROVED	3/14/2007		4/26/2014
TENTATIVE PARCEL MAP NO. 35267 PROPOSES A SCHEDULE 'E' SUBDIVISION OF 6.37 GROSS ACRES INTO 8 PARCELS WITH A MINIMUM PARCEL SIZE OF 27,982 SQ. FT.				
PM35285	APPROVED	12/4/2006		8/28/2010
TENTATIVE PARCEL MAP NO. 35285 PROPOSES A SCHEDULE E SUBDIVISION OF TWO EXISTING PARCELS, WITH A TOTAL OF 4.22 NET ACRES, INTO THREE PARCELS WITH A MINIMUM SIZE OF .93 NET ACRES. PARCEL 1 IS 1.96 NET ACRES WITH NO NEW DEVELOPMENT PROPOSED; PARCEL 2 IS 0.93 NET ACRES WITH AN EXISTING INDUSTRIAL BUILDING TO REMAIN; PARCEL 3 IS 1.32 NET ACRES WITH AN EXISTING INDUSTRIAL BUILDING TO REMAIN. THE PROJECT SITE IS LOCATED WITHIN THE AGUA MANSA INDUSTRIAL CORRIDOR(SPECIFIC PLAN NO. 210), IN THE JURUPA AREA PLAN; MORE SPECIFICALLY, EASTERLY OF MARKET STREET, WESTERLY OF VIA CERRO AND NORTHERLY OF 24T				
PM35546	APPROVED	9/26/2007		5/13/2011
TENTATIVE PARCEL MAP NO. 35546 PROPOSES A SCHEDULE 'E' SUBDIVISION OF 2.25 GROSS ACRES CONSISTING OF 13 PARCELS INTO 2 PARCELS, PARCEL 1 IS BEING PROPOSED AS 0.66 GROSS ACRES AND PARCEL 2 IS BEING PROPOSED AS 1.59 GROSS ACRES				
PM35612	APPROVED	1/15/2008		1/13/2014
SCHEDULE 'E' SUBDIVISION OF 35.96 NET ACRES INTO THIRTEEN (13) PARCELS WITH A MINIMUM PARCEL SIZE OF 0.38 NET ACRES.				
PM35710	APPROVED	11/7/2007		12/22/2012
SUBDIVIDE 8.84 ACRES INTO 8 COMMERCIAL LOTS				
PM35711	APPROVED	11/19/2007		12/22/2012
SCHEDULE DIVISION OF 35.23AC INTO TEN LOTS				
PM35712	APPROVED	7/1/2008		12/22/2012
PROPOSE A 1 LOT CONDO MAP WITH 11 UNITS FOR FUTURE SALE OF BUILDINGS				
PM35864	APPROVED	8/26/2008		5/20/2017
THIS PARCEL MAP IS A SCHEDULE "H" SUBDIVISION OF 20 ACRES INTO 2 RESIDENTIAL PARCELS WITH A MINIMUM OF 8 ACRES PER PARCEL.SCHEDULE H SUBDIVISION OF 20.57 AC. INTO 2 PARCELS				
PM36448	APPROVED	3/21/2012		4/22/2018
SUBDVD 785.44AC INTO 15 PARCELS SCHED "I"				
PP04077R1	APPROVED	3/28/2001		
REVISED PP TO REACTIVATE EXIST FAST FOOD FACILITY				
PP07817R3	APPROVED	6/25/2003		
325,490 SQ FT EXPANSION TO EXISTING FLEETWOOD OPER				
PP08916R1	APPROVED	9/29/2000		
12,500 SF. METAL STORAGE SHED TO EXISTING OFFICE				
PP10147R1	APPROVED	5/10/2004		11/3/2010
PLOT PLAN NO. 10147, REVISED PERMIT NO. 1 PROPOSES TO CONSTRUCT A 16,131 SQ. FT. STRUCTURE FOR OFFICE, TRUCK MAINTENANCE SHOP, AND PARTS STORAGE ON A 6.36 GROSS ACRE PARCEL. THE PROPOSAL CONSISTS OF 4,943 SQ. FT. OF OFFICE SPACE, 9,270 SQ. FT. OF SHOP AREA, 1,918 SQ. FT. OF STORAGE AREA, A 4,688 SQ. FT. TRUCK WASH AND EQUIPMENT ROOM, 50 TRUCK PUMPING PARKING SPACES, 41,806 SQ. FT. (15%) OF LANDSCAPING, A 12,000 GALLON ABOVE_GROUND DIESEL FUEL TANK, AND 66 PARKING SPACES INCLUDING THREE (3) ACCESSIBLE PARKING SPACES FOR PERSONS WITH DISABILITIES.				
PP10269R1	APPROVED	10/17/2008		4/20/2011
CONVERT 22,011 SQ. FT. INDUST.BLDG INTO CHURCH				
PP11677	APPROVED	12/12/1989		8/24/1995
14 ACRE COMMERCIAL DEVELOPMENT A RETAIL SHOPPING CENTER EA 34607 CFG 183, EIR 360, EXT 1043				

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PP12153	APPROVED	7/23/1990		5/19/1998
16 UNIT APARTMENT BUILDING DEVELOP 4 FOURPLEXES ON 2.04 ACRES ON 4 PARCELS EA 35362, PM 26394 CFG 14, EXT 1026, EXT 1066				
PP12532	APPROVED	12/19/1990		8/10/1994
ADDITION OF 1880 SQ./FT TO EXISTING CHURCH ADDITION OF 1,880 SQUARE FEET TO AN EXISTING CHURCH EA 35678 CFG 289, CPM 843 SEE FILE				
PP12814	APPROVED	6/4/1991		7/8/1993
20,000 SQ FT WAREHOUSE FACILITY/ FAST TRACT AUTH. 004-91				
PP12814R1	APPROVED	8/3/1999		
ADD PALLET MANUFACTURING FACILITY BUILDING				
PP13074	APPROVED	12/16/1991		7/1/1995
RETAIL STORES 3 UNIT COMMERCIAL RETAIL BUILDING. EA 36160 PP 8590 SEE FILE				
PP13277	APPROVED	6/11/1992		1/11/1995
105 FOOT BROADCASTING ANTENNA 105 FOOT BROADCASTING ANTENNA EA 36287 CFG 478				
PP14555	APPROVED	2/29/1996		3/24/1999
CONSTRUCTION EQUIPMENT STORAGE YARD ONLY CONSTRUCTION EQUIPMENT STORAGE YARD EA 36970 PAR 10				
PP14555R1	APPROVED	5/26/1999		
REVISE EXPIRED PP14555				
PP14766	APPROVED	9/23/1996		11/4/1998
134,700 SQ FT FAC FOR MANFCTG DENSITY FIBER BOARD				
PP14766R2	APPROVED	1/14/2003		1/24/2007
RVP TO PROPOSE NEW OPS FOR EXSTG CAN-FIBRE SITE				
PP14766R3	APPROVED	12/21/2007		7/28/2010
THE PROPOSAL IS TO INCLUDE THE COLLECTION, SEPARATION, BAILING, AND DISTRIBUTION OF CONSTRUCTION, DEMOLITION AND INERT (CDI) MATERIALS INTO AN ESTABLISHED WOOD RECYCLING FACILITY. THE PROPOSAL INCLUDES: TWO 320 SQUARE FEET MODULAR OFFICE BUILDINGS AND THEIR RESPECTIVE PARKING SPACES; FIFTEEN (15) FLEET PARKING STALLS; SEVEN (7) EQUIPMENT PARKING STALLS; THE RELOCATION OF TWO WOOD GRINDERS; AND, OF FLOADING, SORTING, AND STORAGE AREAS FOR CDI MATERIALS AS SHOWN IN THE CLOUDED AREA OF THE SITE PLAN . NO OTHER USES OR MODIFICATIONS TO THE PLANS ARE REQUESTED OR CONSIDERED WITH THIS PROPOSAL.				
PP15523	APPROVED	6/19/1998		
CONSTRUCT 70X100 TRUCK SVC BLDG FOR TRUCKING CO				
PP15982	APPROVED	5/25/1999		
A 251,332 SQ FT ABD 51,710 SQ FT COLD STORAGE WRHS				
PP15986	APPROVED	5/25/1999		
CONSTRUCT 60 X 130 METAL BUILDING				
PP16191	APPROVED	10/1/1999		
25,175 SQ. FT. COMMERCIAL WAREHOUSE				
PP16362	APPROVED	1/13/2000		
FAST FOOD RESTUARANT				
PP16371	APPROVED	1/21/2000		
CONSTRUCTION YARD AND OFFICE COMPLEX				
PP16536	APPROVED	5/3/2000		
PLOT PLAN FOR JACK IN THE BOX RESTAURANT/DRIVE THR				

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PP16580	APPROVED	6/5/2000		
TRAILER MANUFACTURING FACILITY W/OFFICE/LANDSCPNG				
PP16952	APPROVED	2/16/2001		7/16/2003
MEAT MARKET IN EXIST STRUCTURE W/ADDITION				
PP17157	APPROVED	5/31/2001		
4000 SQ FT 1 STORY OFFICE/8000 SF REPAIR FACILITY				
PP17189	APPROVED	6/20/2001		12/2/2007
PLOT PLAN FOR LAND USE AND DEVELOPMENT				
PP18340	APPROVED	12/17/2002		1/16/2010
TONGAN MINISTRY MULTI PURPOSE & OFFICE BLDG				
PP18637	APPROVED	5/20/2003		
CHASSIS ASSEMBLY FACILITY 54,725 SQ FT BLDG W/PA..				
PP18740	APPROVED	7/14/2003		10/28/2006
COMMERCIAL WAREHOUSE W/OFFICE				
PP19128	APPROVED	1/16/2004		12/11/2008
TO USE LOT FOR TRUCK AND RV STORAGE RENTAL				
PP19197	APPROVED	2/10/2004		6/27/2007
SHELL COMMERCIAL BLDG				
PP19738	APPROVED	9/3/2004		8/8/2008
UNMANNED AUTOMATED FUELING STATION (CFN)				
PP19856	APPROVED	10/13/2004		7/25/2008
LUMBER & WOOD PRODUCT STORAGE & DISTRIBUTION				
PP20669	APPROVED	7/19/2005		4/17/2008
3,518 SQ. FT. PROFESSIONAL OFFICE BUILDING				
PP22027	APPROVED	8/4/2006		4/21/2010
PLOT PLAN NO. 22027 PROPOSES TO CONSTRUCT A 12,670 SQ. FT., ONE-STORY, CONSTRUCTION OFFICE AND A ELECTRICAL EQUIPMENT STORAGE YARD COMPOSED OF MULTIPLE STORAGE BINS RANGING IN SIZE FROM 320 SQ. FT. TO 800 SQ. FT. WITHIN 2.87 GROSS ACRES (2.66 NET). THE PROPOSAL ALSO INCLUDES 8,228 SQ. FT. (13%) OF LANDSCAPING AND 68 PARKING SPACES INCLUDING 3 ACCESSIBLE PARKING SPACES FOR PERSONS WITH DISABILITIES				
PP22241	APPROVED	10/17/2006		2/11/2011
BUILD OFFICES, PROF. SRVS SALES BARBER/BEAUTY SHOP				
PP22636	APPROVED	3/14/2007		4/26/2013
CONSTRUCT EIGHT INDUSTRIAL/MANUFACTURING BLDGS CONSISTING OF CONCRETE TILT-UP DESIGN. EACH BLDG INCLUDES A 750 SQ. FT. MEZZANINE AREA FOR STORAGE USE 750 SQ. FT. FOR OFFICE USE & 11,000 SQ. FT. FOR MANUFACTURING USE. THE PROPOSAL CONSISTS OF 50,680 SQ. FT. OF LANDSCAPING & 168 PARKING SPACES INCLUDING 8 ACCESSIBLE PARKING SPACES.				
PP22961	APPROVED	7/26/2007		1/5/2011
PLOT PLAN NO. 22961 PROPOSES TO CONSTRUCT ONE (1) 25,600 SQ. FT. STRUCTURE FOR WAREHOUSE, FABRICATION, AND OFFICE USE WITHIN A 1.17 NET ACRE LOT. THE PROPOSAL CONSISTS OF 12,050 SQ. FT. OF WAREHOUSE SPACE, 6,000 SQ. FT. OF FABRICATION SPACE, 6,050 SQ. FT. OF STORAGE SPACE, 1,500 SQ. FT. OF OFFICE SPACE. THE PROPOSAL ALSO INCLUDES 37 PARKING SPACES INCLUDING TWO (2) ACCESSIBLE PARKING SPACES FOR PERSONS WITH DISABILITIES.				

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PP23022	APPROVED	8/17/2007		9/21/2011
PLOT PLAN NO. 23022 PROPOSES TO CONSTRUCT A 14,315 SQ. FT. CONCRETE TILT-UP BUILDING FOR MANUFACTURING, WAREHOUSE, AND OFFICE USE WITH 27 PARKING SPACES. THE PROPOSED BUILDING CONTAINS 5 SUITES RANGING IN SIZE FROM 2,183 SQ. FT. TO 4,134 SQ. FT.				
PP23063	APPROVED	9/6/2007		
15'X30' EQUIP SHELTER UNMANNED W/METAL ROOF				
PP23168	APPROVED	11/7/2007		12/22/2011
PROPOSE TO CONSTRUCT 133,782 SQ FT INDUSTRIAL USE FACILITY CONSISTING OF 6 BUILDINGS TO INCLUDE STORAGE, MANUFACTURING AND OFFICE USES				
PP23182	APPROVED	11/19/2007		12/22/2011
7 BLDG INDUSTRIAL CONSTRUCTION 133,782SF BLDGS				
PP23256	APPROVED	1/15/2008		1/13/2011
11 WAREHOUSE AND OFFICE BUILDINGS RANGING IN SIZE FROM 6,112 SQ. FT. TO 67,432 SQ. FT. FOR A TOTAL OF 370,595 SQUARE FEET ON 19.21 GROSS ACRES OF A 35.96 GROSS ACRE SITE. THE PROJECT PROPOSES 586 PARKING SPACES, ONE (1) PARCEL THAT WILL REMAIN VACANT, AND ONE (1) DETENTION/INFILTRATION BASIN. THE PROJECT WILL BE DIVIDED IN TWO PHASES DIVIDED BY BUILDINGS A1 TO A7 AND B1 TO B4.				
PP23277	APPROVED	1/30/2008		12/22/2011
CONSTRUCT 116,164 SQ FT INDUSTRIAL FACILITY				
PP23321	APPROVED	2/29/2008		3/9/2011
CONTRACTOR STORAGE YARD				
PP23815	APPROVED	10/6/2008		7/14/2012
PLOT PLAN FOR EXISTING UNMANNED WIRELESS/UNDISGUISED CELL TOWER				
PP23843	APPROVED	10/14/2008		6/15/2011
THE FLABOB HANGAR VILLAGE IS A NINE (9) PHASE DEVELOPMENT OF NINE (9) PRE-FABRICATED AIRPLANE HANGAR METAL BUILDINGS TOTALING 135,569 SQUARE FEET ON 7.2 NET ACRES OF AN APPROXIMATE SEVENTY FIVE (75) GROSS ACRE SITE. THE PROJECT SITE IS LOCATED IN THE COMMUNITY OF RUBIDOUX OF THE JURUPA AREA PLAN OF WESTERN RIVERSIDE COUNTY; MORE SPECIFICALLY, NORTHERLY OF CRESTMORE ROAD, SOUTHERLY OF RUBIDOUX BOULEVARD, EASTERLY OF 46TH STREET, AND WESTERLY OF 42 TH STREET.				
PP24778	APPROVED	11/16/2010		8/12/2013
TWO STORY APARTMENTS, 89 UNITS AT 13.26 DU/AC THE APPLICANT PROPOSES AN 89-UNIT LOW INCOME HOUSING APARTMENT COMPLEX INCLUDING A TOT-LOT, PARKING, TRASH ENCLOSURES, AND PEDESTRIAN PATHWAYS ON A 6.71 ACRE SITE.				
PP25125	APPROVED	5/7/2012		
TO PERMIT AN EXISTING 11,158 SQUARE FOOT RESTAURANT WITH 61 PARKING SPACES AND ADD A 3,837 SQUARE FOOT CANOPY				
PP25155	APPROVED	6/26/2012		8/19/2015
VERIZON 50 FT MONOEUCALYPTUS WIRELESS FACILITY/12 ANTS/1 MICROWAVE DISH/1 EQPMT SHELTER/1 GENERATOR/2 GPS/6 FT DECORATIVE BLOCK WALL ENCLOSURE				
PP25482	APPROVED	12/6/2013		
GENERAL OFFICES IN 2 EXISTING BLDGS (1020 1622 SF)				
PP25505	APPROVED	1/22/2014		
TRUCK SALES FACILITY W/1,952 SF OFFICE/6,000 SF STORAGE FOR TRUCKS, & 900 SF COVERED DISPLAY AREA				
PP25847	APPROVED	7/9/2015		12/5/2026
UNMANNED WIRELESS FACILITY FOR VERIZON				
PPT180014	APPROVED	4/26/2018		
REMOVAL OF EXISTING RADIO TOWER/REPLACE W/ TALLER RADIO TOWER AT SAME LOCATION				

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PPT210011	HOLD	3/12/2021		
PLOT PLAN TO DEVELOP 461 'PASEO' TOWNHOMES AND 385 'YARD' TOWNHOMES FOR A TOTAL OF 846 DWELLING UNITS IN 4 PHASES. PHASE 1A PROPOSES 141 'PASEO' TOWNHOMES AND 125 'YARD' TOWNHOMES FOR A TOTAL OF 266 DWELLING UNITS; PHASE 1B PROPOSES 123 'PASEO' TOWNHOMES AND 100 'YARD' TOWNHOMES FOR A TOTAL OF 223 DWELLING UNITS; PHASE 2A PROPOSES 114 'PASEO' TOWNHOMES AND 80 'YARD' TOWNHOMES FOR A TOTAL OF 194 DWELLING UNITS; AND PHASE 2B PROPOSES 83 'PASEO' TOWNHOMES AND 80 'YARD' TOWNHOMES FOR A TOTAL OF 163 DWELLING UNITS. SPECIAL MULTI FAMILY APPLICATION AND TENTATIVE TRACT MAP APPLICATION LOCATED WITHIN A 57.4-ACRE PORTION OF NEIGHBORHOOD 3 (CENTER/SPRING STREET) WITHIN THE BOUNDARIES OF THE HIGHGROVE AREA PLAN.				
PUP00163	APPROVED	4/28/1966		6/2/1968
FIRST BAPTIST CHURCH OF HIGHGROVE NON-EA PUP 163, PUP 153, RVP 28, RVP 149, PUP 163 MC#1				
PUP00323	APPROVED	12/26/2000		
PUP00326	APPROVED	12/26/2000		
PUP00424	APPROVED	12/26/2000		
PUP00474R3	APPROVED	4/22/2010		5/18/2013
THE 3RD REVISED PERMIT TO THE APPROVED PUP PROPOSE S TO ADD 3,636 SQ. FT. OF BUILDING AREA, 30 BEDS & 30 PARKING SPACES TO THE EXISTING PERMITTED 5,091 SQ. FT. 30-BED RESIDENTIAL REENTRY CENTER (RRC) FACILITY FOR A TOTAL BUILDING AREA OF 8,727 SQ. FT. & A TOTAL OF 60 BEDS. THE EXISTING 609 SQ. FT. OFFICE & 2 STORAGE BUILDINGS AT 120 SQ. FT. EACH WILL REMAIN. THIS REVISED PUP ADDITIONALLY REQUESTS TO HAVE A LIFE SPAN OF 20 ADDITIONAL YEARS ADDED T O THE EXISTING EXPIRATION DATE OF NOVEMBER 22, 201 2, AND WOULD THEREFORE EXPIRE ON NOVEMBER 22, 2032 .				
PUP00761	APPROVED	11/21/1994		6/11/1999
CHURCH REMODEL EXISTING BUILDING FOR CHURCH ON 1.08 ACRES EA 36779				
PUP00773R1	APPROVED	6/10/2003		3/23/2006
EXPAND EXISTING CHILD CARE FACILITY TO CREATE ... AN ELEMENTARY CAMPUS W/FOUR MODULAR CLASS ROOM UNITS AND A MOBILE TOILET UNIT.				
PUP00777	APPROVED	12/11/1995		4/30/1998
PUP FOR 75' MONOPOLE FOR WIRELESS COMMUNICATION PUP TO CONSTRUCT A 75' MONOPOLE WITH ANTENNA ARRAY , & EQUIPMENT CABINETS FOR WIRELESS COMMUNICATION EA 36940, VAR 1631 PAR 27				
PUP00790	APPROVED	1/16/1998		
CELL SITE-35' MONOPOLE W/ANTENNAS&EQUIP ENC				
PUP00830	APPROVED	3/1/2001		
70 FT MONOPALM, DISH & ATENNAS, EQUIP CABINET				
PUP00871	APPROVED	6/8/2004		6/28/2007
WATER RESERVOIR				
PUP00872	APPROVED	6/17/2004		6/28/2007
RESERVOIR ZONE 2				
PUP00875	APPROVED	10/5/2004		6/28/2007
SEWER LIFT STATION				

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PUP00880	APPROVED	11/29/2005		6/5/2009
PUBLIC USE PERMIT NO. 880 PROPOSES TO CONSTRUCT A 104' DIAMETER X 24' HIGH DOMESTIC WATER RESERVOIR LOCATED WITHIN PLANNING AREA 3 OF PHASE 2 FOR THE SPRING MOUNTAIN RANCH SPECIFIC PLAN NO. 323 DEVELOPMENT, SPECIFICALLY FOR TRACTS 29598, 29599, AND 29740. PUBLIC USE PERMIT NO. 880 PROPOSES TO CONSTRUCT A 104' DIAMETER X 24' HIGH DOMESTIC WATER RESEVOIR L OCATED WITHIN PLANNING AREA 3 OF PHASE 2 FOR THE SPRING MOURTAIN RANCH SPECIFIC PLAN NO. 323 DEVELOPMENT, SPECIFICALLY FOR TRACTS 29598, 29600, 29599, AND 29740				
PUP00884	APPROVED	8/18/2006		11/14/2009
PUBLIC USE PERMIT NO. 884 PROPOSES TO DEVELOP AN 11,142 SQUARE FOOT CHURCH FACILITY AND TWO (2) 2,880 SQUARE FEET ONE STORY PORTABLE BUILDINGS. THE DEVELOPMENT PROPOSES TO PROVIDE 40,570 SQUARE FEET OF LANDSCAPING, 121 PARKING SPACES (107 SPACES FOR REGULAR PARKING, 9 SPACES FOR COMPACT PARKING AND 5 SPACES FOR HANDICAPPED PARKING), AND 78,930 SQU ARE FEET OF UNDEVELOPED AREA.				
PUP00920	APPROVED	8/30/2013		5/21/2016
PARKING LOT FOR SANDALS CHURCH LOCATED S/PALMYRITA				
PUP0285	APPROVED	8/7/2000		
PUP0323	APPROVED	8/7/2000		
PUP0326	APPROVED	8/7/2000		
PUP0424	APPROVED	8/7/2000		
PUP0461	APPROVED	8/7/2000		
PUP0474	APPROVED	8/7/2000		
SP00208	APPROVED	10/21/1985		
SP ON 320 ACRES FOR 1986 DU MAX ON 259 ACRES, 39 A CRES COMMERCIAL, 7 ACRE SCHOOL, & 15 ACRE PARK. EA 30135, EIR 218, DA 11 SP 208 SC#1, PP 6107, TR 12103, PP 8679				
SP00210	APPROVED	11/22/1985		
4,465 ACRE INDUSTRIAL CORRIDOR IN CONJUNCTION W/CO UNTY OF SAN BERNARDINO, CITIES OF RIALTO & COLTON*				
SP00323	APPROVED	5/30/2000		
MIXES SFR/OPEN SPACE/SCHOOL SITE/COMMERCIAL				
SP00323A1	APPROVED	8/2/2006		
MINOR ALTERATIONS TO THE DENSITY/GEN PLAN.				
SP00330	APPROVED	7/22/2002		
SPRINGBROOK ESTATES				
SP00337	APPROVED	11/24/2003		
DEVLOPE 250 ACRES INTO SPECIFIC PLAN (RES/COMM/PAR				
TR23962	APPROVED	6/14/1990		6/4/1997
DIVIDE APPROX 9 ACRES INTO 15 LOTS DIVIDE 8.87 ACRES INTO 15 LOTS EA 35230 EXT 875				
TR24410	APPROVED	6/30/1989		3/12/1998
DIVIDE 19.31 ACRES INTO 34 RESIDENTIAL LOTS EA 34063, CZ 5529 EXT 811, EXT 1140				

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TR27891	APPROVED	5/3/1994		9/19/2001
DIVIDE APPROX 61 ACRES INTO 156 LOTS SUBDIVIDE 61.35 ACRES INTO 156 RESIDENTIAL LOTS AND 7 OPEN SPACE LOTS. EA 36685 SP 250, PM 27814, SSR 578				
TR27891M1	APPROVED	12/27/1999		9/19/2004
MINOR CHANGE TO DELETE COND 5.2 & 6.1 ON TR27891				
TR28957	APPROVED	6/11/1999		1/11/2017
DIVIDE 8.86 ACRES INTO 36 RESIDENTIAL LOTS				
TR29168	APPROVED	2/16/1999		8/15/2005
DIVIDE 20.1 ACRES INTO 31 RESIDENTIAL LOTS				
TR29168M1	APPROVED	12/11/2001		9/23/2005
REVISE TR 29168 RES., TO INCLUDE DETENTION BASIN				
TR29170	APPROVED	2/16/1999		8/15/2004
DIVIDE 10 ACRES INTO 17 RESIDENTIAL LOTS				
TR29597	APPROVED	5/30/2000		9/9/2015
SCHD A DIV 122.1 AC TO 362 RES, 1 OS & 1 SCHOOL LOT, A 12.4 ACRE SCHOOL SITE, OPEN SPACE, AND 352 RESIDENTIAL LOTS OF 7,200 SQ. FT. MINIMUM.				
TR29598	APPROVED	5/30/2000	5/18/2007	9/9/2017
SCHD A DIV 181.45 AC TO 362 RES, 1 WATR RES & 1 OS OPEN SPACE, AND 326 RESIDENTIAL LOTS OF 7,200 SQ. FT. MINIMUM LOT SIZE.				
TR29599	APPROVED	5/30/2000		9/9/2019
SCHD A DIVISION 142.6 AC. INTO 145 RES LOTS				
TR29599E05	APPROVED	12/14/2017		9/9/2019
EOT 5 TR29599				
TR29599R1	APPROVED	4/3/2006		9/9/2019
REVISED TENTATIVE MAP TO REDUCE THE NUMBER OF LOTS FROM 145 TO 143 RESIDENTIAL LOTS WITH A MINIMUM LOT SIZE OF 7,000 SQUARE FEET, 8 OPEN SPACE LOTS, 2 DRAINAGE LOTS, AND ONE WATER TANK LOT.				
TR29600	APPROVED	5/30/2000		9/9/2019
SUBDIVIDE 188.84 ACRES INTO 273 SFR (7200 SF)				
TR29600E05	APPROVED	12/14/2017		9/9/2019
TR29600 EXTENSION #5				
TR29740	APPROVED	5/30/2000		9/9/2019
DIVIDE 97.75 ACRES INTO 270 LOTS				
TR29740E05	APPROVED	12/14/2017		9/9/2019
TR29740 EXTENSION #5				
TR29740M1	APPROVED	11/16/2006		9/9/2019
ADJUST APPROVED GRADING & ELEVATIONS FOR EARTHWORK BALANCE AND TO CONVERT 0.88 ACRES OF LOT A INTO A CONSERVATION EASEMENT AS REQUIRED BY THE HANS PROCESS. THE PROJECT WILL CREATE 270 SINGLE FAMILY RESIDENTIAL LOTS WITH A MINIMUM LOT SIZE OF 7,200 SQUARE FEET AND 5 OPEN SPACE LOTS.				
TR29741	APPROVED	5/30/2000		9/9/2015
DIV 59.78 AC INTO 85 RES, 1 INST, 1 SPEC USE, 4 COMM				
TR29768	APPROVED	9/6/2000		
SUBDIVIDE 9.15 AC INTO 17 20000 SQ FT MIN LOTS				
TR30908	APPROVED	10/4/2002		12/21/2017
DIVIDE 92.5 ACRES INTO 381 RES/2 PARKS/6 OPEN SPACE LOTS AND DETENTION BASIN				

Approved Cases as of 08/22/2022

<u>CASE NAME</u>	<u>STATUS</u>	<u>APPLIED DATE</u>	<u>APPROVAL DATE</u>	<u>EXPIRED DATE</u>
TR30908E04	APPROVED	12/13/2017		12/21/2020
FOURTH EXTENSION OF TIME FOR TR30908				
TR30909	APPROVED	10/4/2002		12/21/2016
DIVIDE 83.48 ACRES INTO 198 RES/2 PARKS/SCHOOL/ 4 OPEN SPACE LOTS AND 1 DETENTION BASIN				
TR30909E04	APPROVED	12/13/2017		12/21/2020
FOURTH EXTENSION OF TIME FOR TR30909				
TR31503	APPROVED	1/20/2004		1/23/2017
DIV 54.82 AC TO 92 5000 SF LOTS & 8-2 1/2 AC LOTS				
TR32291	APPROVED	3/21/2005		3/27/2018
SCHD A DIVISON OF 29 AC INTO 69 RES, 3 OS, 1 DETE				
TR32721	APPROVED	7/28/2004		7/25/2017
THE PROPOSAL HEREBY CONSIDERED IS A SCHEDULE A SUB DIVISION OF 6.94 GROSS ACRES INTO 22 SINGLE FAMILY RESIDENTIAL LOTS WITH A 7,200 SQUARE FOOT MINIMUM LOT SIZE. THE PROPOSAL INCLUDES ONE EASEMENT LOT (LOT A) PROVIDING ACCESS TO CELL TOWER EASEMENT L OT B AND TO THE RUBIDOUX COMMUNITY SERVICES DISTRI CT WATER TANK. THE PROJECT SITE IS LOCATED ON THE NORTH EAST CORNER OF LA CANADA DRIVE AND MURIEL D RIVE. THE GENERAL PLAN LAND USE DESIGNATION IS MD R WITH A CONSISTENT ZONING DESIGNATION OF R-1.				
TR32972	APPROVED	10/12/2004		12/6/2014
SUBDIV 15.1 ACRES INTO 69 RESIDENTIAL LOTS VISION OF 15.1 ACRES (SP337, PA10) INTO 69 RESIDEN TIAL LOTS WITH A 5,500 SQUARE FOOT MINIMUM LOT SIZ ES AND ONE OPEN SPACE LOT.				
TR32973	APPROVED	10/12/2004		12/6/2014
SCHEDULE A SUBDIVISION OF 27.5 ACRES INTO 103 SFR 14 INTO 108 RESIDENTIAL LOTS & 3 OPEN SPACE LOTS. A TOTAL OF FIVE RESIDENTIAL LOTS WITH A MINIMUM SI ZE OF 7,000 SQUARE FEET AND ONE 2,006 SQUARE FOOT OPEN SPACE LOT SHALL BE DEVELOPED IN PA 13 AND 103 RESIDENTIAL LOTS WITH A MINIMUM SIZE OF 5,000 SQUA RE FEET AND TWO OPEN SPACE LOTS SHALL BE DEVELOPED IN PA 14.				
TR32989	APPROVED	3/21/2005		6/27/2018
CREATE 29 LOTS FROM 10 ACRE PARCELL				
TR32989E03	APPROVED	6/12/2018		6/27/2021
3RD EXTENSION OF TIME FOR TR32989				
TR33410	APPROVED	4/7/2006	1/22/2021	4/11/2020
SUBDVD 45.57 AC INTO 113 SFR LOTS/BASIN/PARK/OS/TR				
TR33410E01	APPROVED	3/2/2020		
FIRST EXTENSION OF TIME FOR TR33410E01				
TR33864	APPROVED	9/28/2005		12/6/2014
SUBVID INTO 18 LOTS 9 S-F LOTS 3 M-F LOTS 1 SCHOOTHE LAND DIVISION IS HEREBY PERMITTED FOR A SCHEDU LE C SUBDIVISION OF 168.2 ACRES OF THE OF EMERALD MEADOWS SPECIFIC PLAN NO. 337 INTO SIXTEEN (16) SC HOOL, RESIDENTIAL, AND PARK SITES, INCLUDING THIRT EEN (13) LETTER LOTS. THIS SUBDIVISION ESTABLISHE S PLANNING AREA BOUNDARIES AND AFFECTS 168.2 ACRES OF THE 278.45 IDENTIFIED BY SPECIFIC PLAN NO. 337 . ALL EXISTING RESIDENTIAL LOTS, AND PLANNING ARE AS 1 AND 17 ARE IDENTIFIED AS NOT A PART (NAP). T HE PROJECT SITE IS BOUND BY THE 60 FREEWAY TO THE NORTH, 34TH STREET TO THE SOUTH, SANTA ANNA RIVER TO THE EAST, AND RUBIDOUX BOULEVARD TO THE WEST.				
TR34592	APPROVED	8/2/2006		3/27/2018
PROPSD SUBDVISION OF 11.7 AC INTO 97 RES LOTS. SINGLE FAMILY CONDOMINIUMS.				
TR34592E02	APPROVED	2/7/2018		3/27/2021
2ND EXTENSION OF TIME FOR TR34592				

Approved Cases as of 08/22/2022

<u>CASE NAME</u>	<u>STATUS</u>	<u>APPLIED DATE</u>	<u>APPROVAL DATE</u>	<u>EXPIRED DATE</u>
TTM38016	APPROVED	2/22/2021		
SCHEDULE "J" SUBDIVISION OF 58.99 (57.17 NET?) ACRES INTO 11 NUMBERED LOTS RANGING IN SIZE FROM 0.16 TO 14.23 IN TWO PHASES TO INCLUDE A 57.4-ACRE PORTION OF "NEIGHBORHOOD 3" (CENTER/SPRING STREET) WITHIN THE BOUNDARIES OF THE HIGHGROVE AREA PLAN.				
TTM38025	APPROVED	3/3/2021		
SCHEDULE "A" SUBDIVISION OF 65.2 ACRES FOR CONDOMINIUM PURPOSES CREATING 846 CONDO UNITS IN 4 PHASES.				

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P05-1528 P09-0087	15592 Constable Road	Tract Map 34509; 50 Single family lots; Phase I - Develop approx 60 acres to 11 subdivision lots	Riverside	CA	254.34	-	50	CC 11/06/07; CPC 4/23/09 (Phase I)
P06-0900 P08-0269 P08-0270	SWC Lurin Avenue and Wood Road	Tract Map 32301; Single Family Residences	Riverside	CA	10.50	-	20	CPC 4/19/07
P06-1355	SWC Lurin Avenue and Barton Street	Tract Map 33480; Single Family Residences	Riverside	CA	21.14	-	32	CPC 7/3/08
P06-1396	NWC Mariposa Avenue and Cole Avenue	Tract Map 33481; Single Family Residences	Riverside	CA	18.78	-	25	CPC 7/3/08
P06-1404	SEC Lurin Avenue and Wood Road	Tract Map 33482; Single Family Residences	Riverside	CA	15.13	-	29	CPC 7/3/08
P10-0113 P10-0118 P10-0449	19985 Van Buren Blvd	Parcel Map 36434 Scoping Session, EIR, DR; Gless Ranch - commercial retail shopping	Riverside	CA	40.00	425,447	-	CC 2/21/12
P12-0019 P12-0156 P12-0158	NWC Riverwalk Parkway and Flat Rock Drive	Conditional Use Permit, Specific Plan Amendment, and Design Review of plot plan and building elevations to facilitate the construction of a vehicle fuel station and wash facility as a 2,400 square foot convenience store and a 3,946 square foot coffee shop in the Commercial Retail La Sierra University Specific Plan Overlay Zone	Riverside	CA	1.17	6,346	-	CC 9/4/12
P12-0021 P12-0022 P12-0074	3990 Reynolds Rd	Parcel Map 36442; General Plan Amendment to change property from C to MHDR; Rezoning from CR-SP and O-S-R-SP to R-3-3000-SP to consider the establishment of a 4-story multi-family residential development	Riverside	CA	9.7	-	102	CC 6/5/12
P12-0184 P12-0185 P12-0187	9265 Audrey Avenue	General Plan Amendment to change property from MDR to C; Rezoning from R-1-7000 to C; and Design review to facilitate the construction of a multiple tenant retail building on a two parcel site, known as the Azar Plaza	Riverside	CA	0.6	6,150	-	CC 11/13/12
P12-0234	3439 Arlington Ave	Design Review; LA Fitness ~9,600 square foot expansion to an existing ~42,000 square foot health and fitness club	Riverside	CA	5.50	~51,600	-	ZA 05/31/12
P12-0266 P12-0267 P12-0268	5938 - 5944 Grand Ave	Conditional Use Permit and Design Review for a 2-story senior housing facility with associated parking, on two vacant parcels approximately 1.4 acres	Riverside	CA	1.40	-	37	CC AP 10/09/2012
P12-0351	3550 Vine St	Conditional Use Permit to allow the establishment of a vocational/technical school for a maximum of 252 students at any one time within an existing 40,060 square foot 3-story office building in the Marketplace Specific Plan	Riverside	CA	2.60	10,000 of 2nd floor of existing bldg	-	CC 10/9/12
P12-0360	2100 Alessandro Blvd	Conditional Use Permit to establish a vocational school on a site currently developed with an approximately 11,505 square foot single-story retail building in the Sycamore Canyon Business Park Specific Plan	Riverside	CA	2.15	11,505 (existing bldg)	-	CPC 12/6/12
P12-0393 P12-0394	6240 Hawarden Drive	Parcel Map; subdivide an approximately 14.63 acre, two-parcel site into three parcels ranging in size from 1.02 to 11.61 acres; a variance for a flag lot, parcel 2, and to allow the existing parcel, located at 6260 Hawarden Drive, to increase from 0.63 acres to 1.02 acres in size, where the Hawarden Drive Special Design Area requires a minimum of 2.0 acres, located at 6240 and 6260 Hawarden Drive, in the RC – Residential Conservation Zone	Riverside	CA	14.63		3	CC 03/30/2015
P12-0419 P12-0557 P12-0558 P12-0559	360 Alessandro Blvd	Conditional Use Permit and Design Review to allow the establishment of a stand-alone financial institution; General Plan Amendment to change property from MDR to C; Rezoning from Residential Estate to Office	Riverside	CA	0.84	3,858	-	CC 5/7/13

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P12-0507 P12-0508 P12-0509 P12-0510	2325 Cottonwood Av	DR, VR LLA, LS/I; 235,741 sqft addition to an existing 400,580 sqft warehouse/ industrial building	Riverside	CA	9.5 project site	636,321	-	ZA 12/7/12
P12-0520 P12-0524	3580 Adams St	Conditional use permit; California Baptist University student services complex; rehabilitate existing retail space	Riverside	CA		36,266	-	CC 1/8/13
P12-0601 P12-0697 P12-0698	14601 Dauchy Ave	Tract Map 36370; GPA from VLDR to HR; RZ from R-1-1/2 acre to RC; 10 lot subdivision	Riverside	CA	9		10	4/17/2014
P12-0605 P12-0606	4250 Van Buren Blvd	Conditional Use Permit and Design Review, to allow the expansion of a vehicle fuel station consisting of construction of second set of pumps and 1,776 sq.ft. canopy at existing "Food 4 Less" supermarket	Riverside	CA	7.45	-	-	CC 4/9/13
P12-0717	1710 Main Street	Family Dollar store	Riverside	CA	1.01	8,039	-	ZA 3/11/13
P12-0729 P12-0727	4015 Madison St	RZ/DR; Rezoning from R-1-7000 to O-S-1 to accommodate the expansion of parking lot for existing medical office	Riverside	CA	0.26	-	-	CC 9/24/13
P12-0741 P12-0743 P14-0238	3545 Central Ave	Riverside Plaza renovations; Pad 3 renovations to consist of 7 tenant spaces with outdoor dining	Riverside	CA	35.00	-	-	ZA 6/7/13; ZA 7/9/14
P12-0742	6825 - 6900 Jurupa Ave	Conditional Use Permit; Riverside Auto Auction; Vehicle Storage Yard, Minor Vehicle repair and inspections within an existing office/industrial building where the outdoor storage of wholesale vehicles has been previously approved (P10-0282, CC Approved 10/19/10)	Riverside	CA	27.71	56,000 (existing bldg)	-	CC 6/11/13
P12-0761 P12-0442 P12-0443 P12-0444	2831 Mary St	Conditional Use Permit to allow the development of a CVS drug store that coincides with Stater Bros redevelopment project (Conditional Use Permit, Rezoning, and Design Review)	Riverside	CA	6.30	56,101	-	CC 5/14/13
P12-0799 P12-0800	NWC Palm Avenue and Beechwood Place	Tract Map 36516 and Design Review; subdivide 1.26 ac vacant parcel into 7 single family residential lots ranging in size from 7,002 to 8,011 sq.ft.	Riverside	CA	1.26	-	7	CPC 4/3/14
P13-0038 P13-0441	3683 Adams St	Rezoning property from Single Family Residential to Mixed Use Neighborhood Zone in the Magnolia Avenue Specific Plan; Design Review for conversion of an existing single family residence into a live/work unit	Riverside	CA	0.32	7 (existing residen	1	CC 8/27/13
P13-0060	5160 Arlington Ave	Conditional Use Permit request on behalf of Chase Bank to allow an existing one drive-thru lane on an existing 4576.87 square foot building to be demolished and reconstructed to include a two lane 36-foot drive thru lane for business purposes	Riverside	CA	6.26	4,576.87 (existing bldg)	-	CC 6/25/13
P13-0087 P13-0262	2450 Market Street	CUP, DR; establish a 67-unit senior housing facility within an existing three-story, approximately 51,321-square-foot building, on an approximately 1.7-acre site, located at 2450 Market Street situated on the easterly side of Market Street between Ogden Way and Northbend Street, across from Fairmount Park	Riverside	CA	1.7		67	CC AP 05/05/2015
P13-0159 P13-0160	6692 Indiana Ave	CUP, DR; Proposal to construct new 7-Eleven vehicle fuel station to operate 24 hours within a commercial retail zone	Riverside	CA	0.75	2,958	-	CC 12/3/13
P13-0165 P13-0166 P13-0167 P13-0168	3280 La Sierra Avenue	CUP, DR, GPA, RZ; Request to construct a new gas station and car wash; GPA from Office to Commercial; Rezone from Single Family Residential to Commercial	Riverside	CA	6.83	-	-	CC 8/12/14

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P13-0181 P13-0182	4824 Jones Ave	CUP, DR; Requesting the expansion of an existing building with 23,124 square foot building for an assembly of people within the Rural Residential zone.	Riverside	CA	6.14	Existing 33,542 square feet, proposed expansion 23,124 square feet	-	CC 12/17/13
P13-0198 P13-0199 P13-0200 P13-0201	5731-5797 Picker St	PROPOSAL BY DAVID HETHERINGTON ON BEHALF OF WAKELAND HOUSING AND DEVELOPMENT CORPORATION TO PROPOSE A REHABILITATION OF THE CAMP ANZA OFFICER'S CLUB AND A COMMUNITY OF AFFORDABLE HOUSING WITH ON-SITE SUPPORTIVE SERVICES FOR DISABLED VETERANS AND THEIR FAMILIES. THE PROJECT INCLUDES THIRTY APARTMENT UNITS ON 5731,5741,5761, AND 5797 PICKLER STREET	Riverside	CA	2.14	-	30	CC 11/19/13
P13-0207 P13-0208 P13-0209 P13-0210 P13-0211	4445 Magnolia Ave	EIR, GPA, RZ, DR, SP; Riverside Community Hospital proposed expansion	Riverside	CA	10.16	251,500		CC AP 05/20/2014
P13-0263 P13-0264 P14-0769	18171 Van Buren Blvd	GP, RZ; GPA from VLDR to C; RZ from R-1-1/2 Acre-SP to CR-SP; to facilitate the development of a retail commercial center on 2 contiguous parcels	Riverside	CA	7.17	10,700 (Retail), 10,000 (Day Care), 2,500 (Drive-thru restaurant), 10,000 (office), 8,000 (medical office)		CC AP 12/01/2015
P13-0324 P13-0325 P13-0326 P13-0327	3410-3426 Grande Vista Parkway	Transit-oriented residential development; Site Plan Review, DR, Rezone from R-1-7000-SP to MU-U-SP, SPA (Riverwalk Vista Specific Plan)	Riverside	CA	3.7	-	187	CPC 5/8/14
P13-0364 P13-0365	3399 Adams St	CUP, DR; Gas station, convenience store, car wash	Riverside	CA	0.51	2,941		CC AP 04/22/2014
P13-0389	NE cor Martha Way & Everest Ave	Tract Map 36579; subdivide 2 parcels to accommodate 5 single family dwellings	Riverside	CA	1.36	-	5	CPC 1/9/14
P13-0432	6091 Victoria Ave	Conditional Use Permit to construct and operate a day care center at a church facility in a residential & cultural resources zone	Riverside	CA	3.40	1,831 (existing bldg)	-	CC 9/24/13
P13-0470	8223 California Ave	Conditional Use Permit to re-establish a church and private school; originally approved in 1950s and revised in 1981	Riverside	CA	5.20	-	-	CC 11/5/13
P13-0501 P13-0502	3705 Tyler St	PPE, DR; Demolish existing tire building and construct new 2-Tenant Restaurant building within existing shopping center	Riverside	CA	10.80	6,000	-	CC 12/3/13
P13-0529 P13-0530	12000 Magnolia Avenue	Parcel Map and Design Review of 7 industrial buildings	Riverside	CA	14.34	282,000		DRC AP 02/22/2017
P13-0553 P13-0554 P13-0583 P14-0065	5940 and 5980 Sycamore Canyon	GP, SP, RZ, DR; 275-unit multiple-family residential development, including common and private amenities and covered and uncovered surface parking, on two contiguous parcels	Riverside	CA	10.26		275	CC AP 03/17/2015
P13-0563 P13-0564	8069 Indiana Ave	DR,VAC; construction of 7,373 sqft addition to facilitate vehicle service and parts sales; Singh Subaru; vacation of Susan Street between Indiana Ave & SR91	Riverside	CA		7,373		CC 6/3/14

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P13-0607 P13-0608 P13-0609 P13-0854	6150 Sycamore Canyon Boulevard	Multi-tenant industrial building; GPA, RZ, DR, SPA to remove site from Sycamore Highlands SP and add it to Sycamore Canyon Business Park SP	Riverside	CA		171,616	-	CC 5/13/14
P13-0650 P13-0651	2586 University Ave	MCUP and Certificate of Appropriateness; Proposal to convert an existing 2500 sqft 2-story residence to a bed and breakfast with an 1118 sqft addition	Riverside	CA	0.23	3,650	-	ZA 12/19/13; CHB 12/18/13
P13-0665	18875 Moss Rd	Tract Map 36641; 8 lot subdivision for future development of single family residences	Riverside	CA	5.03	-	8	CPC 4/17/14
P13-0723 P13-0724 P13-0725	4325, 4335, 4345, 4355, 4375 Adams St	Tract Map 36654, PRD, DR; subdivide 7.76 acres into 62 single family planned residential development	Riverside	CA	7.76	-	62	CC 2/25/14
P13-0785 P13-0787	4247 Van Buren Blvd	CUP, DR; Expansion of existing church	Riverside	CA	3.43	12,166	-	CC 2/25/14
P13-0903 P13-0904	3865 Jackson St	CUP, DR; 18,650 sqft expansion of existing medical emergency department and construction of a 2,005 sqft utility building; Parkview Hospital Medical Center	Riverside	CA		20,655		6/19/2014
P13-0905 P13-0906	NEC Arlington Avenue and Hawarden Drive	Tract Map 36604, PRD; subdivide an existing 12.41 acre parcel having an average natural slope of 26.4% into seven lots for the future construction of single family residences, as well as the establishment of an approximately 5.20 acre open space area, four lettered lots, and a public cul-de-sac street; resulting in a density of 0.56 dwellings per acre in the RC – Residential Conversation zone	Riverside	CA	12.41		7	CC 12/15/2015
P13-0912 P13-0913	3742 Park Sierra Av	CUP, DR; LA Fitness Sports Club facility	Riverside	CA		45,000	-	CC 6/17/14
P13-0916 P13-0917 P13-0918 P13-0919	10403-10485 Magnolia Ave	DR, RZ, SitePlan Review, VR; Time extension for P05-1521, P08-0706, P08-0740, P08-0794; Magnolia Square mixed use development, Parcel map 36112	Riverside	CA	16.6	71,211 commercial/retail	315 multi-family; 3 live/work	12/16/2013
P13-0956 P13-0959 P13-0960 P13-0963 P13-0964 P13-0965 P13-0966	474 Palmyrita Ave	MCUP, DR, VAR, PM to subdivide into 3 lots, GPA, SPA (Hunter Business Park Specific Plan), Vacate Columbia Avenue Loop; Construct 3 industrial buildings	Riverside	CA	72.5	1,461,449	-	CC AP 10/27/2015
P13-0967 P13-0968	10995 Indiana Avenue	CUP, DR; Gas station, car wash, detail center	Riverside	CA		7065 sqft		CPC 8/7/14
P13-0989	1200 Columbia Ave	CUP; Assemblies of People church and conference center within existing 64,910 sqft bldg	Riverside	CA		Existing 64,910		CC 3/11/14
P14-0026 P14-0027	10938 Magnolia Ave	CUP, DR; McDonald's	Riverside	CA			-	CC 11/18/2014
P14-0045 P14-0046 P14-0047 P14-0048 P14-0049	3050 Mission Inn	SPR, DR, RZ, GPA, SPA; Mission Lofts apartment complex.	Riverside	CA	4.67	-	212	CC AP 06/07/2016
P14-0132	4665 Vine St	CUP; Allow a materials (metal) processing facility to operate	Riverside	CA	2.25	2 existing bldgs, 30,324 sqft total	-	CC AP 07/08/2014
P14-0176	SEC La Sierra Avenue and Victoria Avenue	Tract Map 36713, GPA, RZ; Final approval of tract map; 14 lot single family subdivision	Riverside	CA	8.8		14	CPC AP 12/18/2014

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P14-0183	3105 Market St	DR; Centerpointe Apartments	Riverside	CA	2.51		146	ZA AP 01/26/2015
P14-0188 P14-0403	3390 Orange St	MCUP, COA; Use residential building as offices	Riverside	CA	0.21			ZA AP 07/21/2014
P14-0220	4035 Trail Creek Rd	CUP; Allow occupancy of an existing 4,400 sqft industrial building for use as Sunday school classrooms and offices	Riverside	CA	-	Existing 4,400 sqft bldg	-	CC AP 06/17/2014
P14-0225 P14-0226 P14-0227 P16-0063	NEC Dominion Avenue and McMahon Street	Proposal by Bowlus Pacific Venture Corporation to consider: 1) Conditional Use Permit to permit a 117 unit three story senior apartment complex on 3.75 vacant acres; 2) Design Review of the project plans; 3) Street Vacation to vacate Dominion Avenue between McMahon Street and Division Street; 4) Variance to allow the proposed carports to be located closer to the to the front property line than the front-most wall of the dwelling units; 5) Variance to allow fewer parking parking spaces than required by the Zoning Code; 6) Variance to allow the building to exceed the maximum building height permitted by the Zoning Code ; and 7) a Grading Exception to allow for retaining walls over six feet in height. The property is located between McMahon Street and Division Avenue and includes the Dominion Avenue right-of-way, in the R-1-8500 - Single-family Residential Zone, in Ward 3.	Riverside	CA	3.75		117	
P14-0294 P14-0295 P14-0297 P16-0497	SEC Valley Springs Parkway and Gateway Drive	Phased development on 50.85 acres with a Healthcare Campus consisting of 1) a 280-bed, 5-story hospital with penthouse; 2) five, 2- to 4-story medical office buildings ranging in size from 40,000 to 100,000 square feet; 3) a 234-unit, 3-story senior housing facility; 4) a 290-bed, 3-story independent living/memory care, assisted living, and skilled nursing facility; and 5) two 4-level parking structures. Entitlements for this project include 1) a General Plan Amendment to amend the land use of the project site from C - Commercial to CSHCSP - Canyon Springs Healthcare Campus Specific Plan; 2) a proposed Canyon Springs Healthcare Campus Specific Plan; 3) a Specific Plan Amendment to remove the project site from the Canyon Springs Business Park Specific Plan; and 4) a Zoning Code Amendment to rezone the property from CR-SP - Commercial Retail and Specific Plan (Canyon Springs Business Park) Overlay Zones to CSHCSP - Canyon Springs Healthcare Campus Specific Plan; and 5) Environmental Impact Report related to the project.	Riverside	CA	50.85	504,000/280 beds (hospital); 370,000 (medical office)	234 (senior); 290 beds (assisted living)	CC AP 11/14/2017
P14-0315 P14-0437	4334 Vine St	Revised CUP, DR; Security operations building for the adjacent Downtown Metrolink station	Riverside	CA		3,150 sqft		CPC 7/17/14
P14-0318	3502 through 3520 Tyler St	PPE, DR; Construct a 10,000 sqft restaurant building; add façade improvements to an existing retail building	Riverside	CA		10,000		ZA 7/11/14
P14-0435	5005 Canyon Crest Dr	MCUP; Temporary use of 2 modular buildings for offices; Saint Andrew's Orthodox Church	Riverside	CA				ZA 5/22/14
P14-0450	2900 Adams St	Revised CUP; to establish classrooms and laboratories within 5 office and warehouse lease spaces; California Baptist University	Riverside	CA	9.78	9085 sqft		CPC 7/17/14
P14-0457	6465 Sycamore Canyon Blvd	MCUP; Health & fitness club/studio under 4,000 sqft within existing 92,410 sqft 2-story office bldg	Riverside	CA	8.02			ZA 6/30/14

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P14-0472 P14-0473 P15-0322 P15-0321	Northerly side of Grove Community Drive, between Trautwein Road and Worchester Lane	TM DR, VR; Tentative Tract Map (TM-39534); a related Planned Residential Development to subdivide an approximately 13.5 acre two-parcel vacant site, into 85 single family residential lots with common open space and shared amenities; the Design Review of the plot plan and building elevations for the proposed residential planned residential development; and variances related to building setback measurements in the R-1-8500-SP – Single Family Residential and Specific Plan (Orangecrest) Overlay Zones.	Riverside	CA	13.5		85	CC AP 06/23/2015
P14-0501 P14-0529 P14-0530	4920-4980 La Sierra Avenue	CUP, DR; Drive-thru fast food restaurant, Pharmacy Drive-thru, Commercial shopping center	Riverside	CA	5.21	17340 (pharmacy), 15,961 (retail), 2,400 (drive-thru restaurant)		CC AP 1/13/15
P14-0525	3622 Adams Street	MCUP; Convert apartments into student housing for California Baptist University	Riverside	CA				CC AP 10/09/14
P14-0536 P14-0537	6321 Valley Springs Parkway	CUP, DR; construct an approximately 3,750-square-foot drive-thru business ("Steak and Shake"), located at the northwesterly corner of Valley Springs Parkway and Corporate Centre Place, APN 291-460-017	Riverside	CA		3,750		CC AP 5/5/15
P14-0600, P14-0601, P14-0602 P15-0044	7350 San Geronio Drive	RZ, DR, VR, VC; consideration of 1) an Amendment to the Municipal Code (Title 19) to rezone approximately 6.2 acres from the CR-S-2-SP – Commercial Retail, Height of Building (two stories), and Specific Plan (Sycamore Canyon Business Park) Overlay Zones to the BMP-S-2-SP – Business and Manufacturing Park, Height of Building (two stories), and Specific Plan (Sycamore Canyon Business Park) Overlay Zones; 2) for Design Review of the plot plan and building elevations related to the construction of an approximately 121,390 square foot multiple tenant industrial building as associated surface parking and landscaping; 3) for a variance to permit a building to encroach into the required 40-foot front yard setback; 4) vacation of excess right-of-way beyond the terminus of the existing cul-de-sac on Mt. Baldy Drive	Riverside	CA	6.2	121,390		CC AP 6/9/15
P14-0673 P14-0675 P14-0928	9471 Magnolia Avenue	CUP, LC, PC or N; Walgreens with Drive Thru pharmacy	Riverside	CA	0.73	10,776		CC AP 2/03/15
P14-0812 P14-0813 P14-0979 P14-0980 P14-0981 P14-0982 P14-0983 P14-1076	9505 Magnolia Avenue	CUP, VA, DR; Sonic Dine in and Drive-Thru; VA for landscaping, Interior side landscape planter, minimum lot size, reduce drive-thru width, increase number of signs allowed, corner blade sign, reduce parking spaces.	Riverside	CA		3,275		CC AP 02/03/2015
P14-0841 P14-0842 P14-0843 P14-0844 P14-0845 P14-0846 P14-0847 P14-0848 P16-0472	2620 Alessandro	GP, RZ, SP, CUP, DR, LL; GENERAL PLAN AMENDMENT (B/OP TO C), REZONE (BMP TO CR), SPECIFIC PLAN AMENDMENT TO ALLOW DRIVE-THRU BUSINESS WITH CUP, (3) CONDITIONAL USE PERMITS, DESIGN REVIEW AND LOT LINE ADJUSTMENT	Riverside	CA	10.57	73,200 industrial, 15,000 retail		CC AP 01/26/2016

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P14-0955 P14-0957	2000 Alessandro Boulevard	CUP, DR; NEW SINGLE STORY, TWO TENANT, DRIVE-THRU RESTAURANT WITH 10-CAR STACKING	Riverside	CA	0.95	4,050		
P14-1021	4260 Tequesquite	CUP; CONDITIONAL USE PERMIT FOR A 19,254 SQ. FT. CHARTER SCHOOL. NO EXTERIOR MODIFICATIONS PROPOSED.	Riverside	CA		19,254		CPC AP 07/28/2015
P14-1033 P14-1034	3667 Placentia	DR, LL; 308,000 sq. ft. warehouse	Riverside	CA	15.9	308,000		CC AP 12/11/2019
P14-1053 P14-1054	1750 Dan Kipper Drive	Parcel Map;subdivide three existing parcels, totaling 13.08 acres into 5 lots to facilitate the development of 5 warehouse buildings ranging in size from 36,424 to 53,006 square feet in size.	Riverside	CA	13.08	229,547		CPC AP 04/23/2015
P14-1070	7105 Old 215	DR; 240,080 SQUARE FOOT WAREHOUSE BUILDING	Riverside	CA		240,080		ZA AP 10/01/2015
P15-0155	4135 Chicago Avenue	CUP; Open a charter high school in a 10,000 square foot square site	Riverside	CA				CC AP 06/16/15
P15-0247 P15-0248 P15-0250 P15-0251 P15-0252 P15-0363	3750 Main Street	CUP, TM, VR; construction of a mixed-use project, consisting of 91 residential units, approximately 8,841 square feet of commercial space and a 115-stall parking garage, on three parcels totaling 0.62 acres, partially developed with an existing commercial building (Imperial Hardware) and a surface parking lot	Riverside	CA	1.49	8,841	91	CPC AP 05/21/2015
P15-0404 P15-0405	3399 Adams St	Conditional Use Permit, Design Review, and Two Variances for the demolition and construction of a 3,040 square foot fuel station canopy with 6 MPDs (Mobil), and associated 4,159 square foot convenience store and 2,080 square foot drive-thru car wash.	Riverside	CA	0.9	4,159 (c-store), 2,080 (car wash), 6 MPDs		CPC 10/23/2015
P15-0478	3439 Arlington Ave	DR; NEW COMMERCIAL BUILDING. SINGLE STORY - APPROXIMATELY 15,186 SF. DESIGNED FOR MIXED USE (RETAIL + RESTAURANT).	Riverside	CA	9.5	15,186		DRC AP 12/03/2018
P15-0535	3530/3540/3558 Fairmount & 3555/3547/3545/3505 Market	CUP; A NEW HOTEL DEVELOPMENT WITH TWO PHASES. PHASE 1 = A 104 ROOM, 62,852 S.F., 75'-0" HIGH, 5-STORY HOTEL. PHASE 2 = A 135 ROOM, 74,275 S.F., 91'-4" HIGH, 6-STORY HOTEL AND A 60' HIGH 6-STORY PARKING GARAGE WITH 195 PARKING SPACES.	Riverside	CA			239 guest room	CPC 04/19/2016
P15-0610 P15-0611	5695 Glenhaven Ave	CUP, DR; NEW 85 UNIT ASSISTED LIVING AND MEMORY CARE FACILITY.	Riverside	CA			85	CC AP 05/03/2016
P15-0783	3612 Arlington	CUP: ADDITION OF THREE MODULAR CLASSROOMS TO ENHANCE THE EDUCATIONAL OFFERINGS OF RIVERSIDE CHRISTIAN DAY SCHOOL.	Riverside	CA				CC AP 06/28/2016
P15-0075 P15-0076 P15-0819	Prairie Way and Van Buren	To construct an approximately 11,738 square foot vehicle repair facility ("Les Schwab Tire Center") and a 2,200 square foot drive-thru restaurant ("Dunkin Donuts"), with an approximately 450 square feet outdoor dining area, on an approximately 2.11 acre vacant site	Riverside	CA	2.11	11,738 automotive, 2,200 drive-thru restaurant		CC AP 10/27/2015
P15-0847 P15-0848 P15-0850	3530 Madison	To construct a commercial center in two phases as follows: Phase 1 consists of a 37,849 square foot health and fitness club (24 Hour Fitness) and a 1,950 square foot drive-thru restaurant (Starbucks); and Phase 2 consists of a 41,117 square foot retail building.	Riverside	CA	8.21	37,849 fitness, 1,950 drive-thru restaurant, 41,117 retail		CPC AP 01/12/2017
P15-0862 P15-0863 P15-0864 P15-0865	4105 Jefferson	TM, RZ, GP, PPE: Tentative Tract Map No. 36994, one-lot subdivision for condominium purposes for the development of 36 single-family attached townhomes, a restroom facility and pool on a 2.96 acre net parcel.	Riverside	CA	2.96		36	CC AP 12/13/2016
P15-0877 P16-0066 P16-0067	1277 University	Specific Plan Amendment, Conditional Use Permit, and Design Review to allow the construction of a seven-story, 143,983 square foot hotel consisting of 126- rooms/suites, administrative offices, gymnasium, recreation room, roof top garden, swimming pool, and a 12,000 square foot restaurant	Riverside	CA	0.82	12,000 restaurant	144 guest rooms	CC AP 06/05/2018

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P15-0907 P15-0908	2234 Main	CUP: ALLOW A GAS STATION IN CONJUNCTION WITH A 3,978 S.F. CONVENIENCE STORE WHICH REQUIRES A TYPE 20 ABC LICENSE4 AND A 968 SF INCIDENTAL CAR WASH.	Riverside	CA	1.75	3,978 retail, 968 car wash		CPC AP 10/19/2017
P15-0958 P15-0959 P15-1105	6458 Van Buren	Conditional Use Permit for a drive-through vehicle wash station related to a proposed mixed automotive, retail and restaurant complex.	Riverside	CA	3.96	2,572 car wash, 14,035 retail		CPC AP 12/15/2016
P15-0979 P15-0980 P15-0981	5573 Arlington	Proposal by Westmoreland Dynasty LP to consider a Zone Change, Conditional Use Permit, and Design Review to rezone 0.54 acres from O - Office Zone to CR - Commercial Retail Zone to facilitate the construction of a 2,200 square foot drive-thru restaurant (Cowboy Jr.), located at 5573 Arlington Avenue, situated on the north side of Arlington Avenue approximately 140 feet east of Phoenix Avenue, in Ward 3.	Riverside	CA	0.54	2,200		CC AP 01/17/2017
P15-0983 P15-0984	515 Alessandro	CUP, DR: CONSTRUCT A 10,000 SF SINGLE STORY "THE LEARNING EXPERIENCE" CHILD CARE CENTER. SITE TO INCLUDE A 15, 000 SF SECURED OUTDOOR PLAY AREA AND RELATED SITE IMPROVEMENTS.	Riverside	CA	1.42	10,000		CC AP 07/26/2016
P15-1000	10866 Arlington	Conditional Use Permit to permit the establishment of a place of worship and associated parking on 2.98 acres, developed with a residence, located at 10866 Arlington Avenue, situated on the south side of Arlington Avenue, west of Mitchell Avenue and east of La Sierra Avenue, in the RR - Rural Residential Zone, in Ward 7.	Riverside	CA	2.98	2,290		CPC AP 04/19/2018
P15-1030	4375 Van Buren	CUP: VETERINARY CLINIC WITHIN A COMMERCIAL RETAIL ZONE	Riverside	CA	0.81			CC AP 04/05/2016
P15-1098	141 E. Alessandro	CUP: VETERINARY SERVICES CLINIC. INTERIOR REMODEL OF EXISTING COMMERCIAL UNIT, NO ADDITIONAL SQUARE FOOTAGE ADDED.	Riverside	CA				CC AP 06/28/2016
P16-0011	4135 Chicago Avenue	CUP: Planet Fitness to go in an existing 18,000 SF tenant space within University Specific Plan shopping center.	Riverside	CA	15.4	18,000		5/19/2016
P16-0016	978 Orange	TM: A Tentative Tract Map for one 0.91 acre lot being divided into five parcels.	Riverside	CA	0.91		5	CPC AP 06/26/2017
P16-0163	3532 Monroe	TI TO EXISTING CLASSROOMS, ADD 5 TEMPORARY MODULAR BUILDINGS, AND FILL IN PARKING TOWARDS THE REAR OF THE PROPERTY.	Riverside	CA				5/13/2016
P16-0168 P16-0170 P16-0388 P16-0389	3280 Vine	The following entitlements are requested to permit a 797 unit, three-story commercial storage facility: 1) Rezone the subject site to apply the CS—Commercial Storage Overlay Zone to the underlying BMP—Business and Manufacturing Park Zone; 2) Design Review of plot plan and building elevations for the commercial storage facility; 3) Variances requested to allow for a lesser front yard setback than required by Code and for a greater building height than permitted by the CS Overlay Zone.	Riverside	CA	1.7	117,478		CC AP 09/13/2016
P16-0184 P16-0185 P16-0186	3628 Madison	(DR): Proposal by WB Allen Development, LLC. to consider a Conditional Use Permit and Design Review for the construction of a 9,712 square foot two story senior apartment building, located at 3628 Madison Avenue, situated on the west side of Madison Avenue between Delaware Street and Orchard Street, in the R-1-7000 - Single-family Residential Zone, in Ward 3.	Riverside	CA	0.62		12	CPC AP 10/26/2016
P16-0207	6030 Sycamore Canyon	DR; 1.9-acre parking lot expansion for an existing auto dealer (Raceway Nissan), including landscaping, site improvements and water quality measures	Riverside	CA	1.9			ZA AP 11/18/2016

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P16-0235 P16-0367	3590 Tyler	MCUP, VR; Storefront assembly of people (IEHP Community Outreach Center) to include office and classroom/meeting uses. Parking Variance.	Riverside	CA	1.65	3500		ZA AP 07/27/2016
P16-0277 P16-0279	6350 Van Buren Boulevard	Proposal by DRC Engineering, Inc. to consider a Conditional Use Permit to permit a 3,000 square foot drive thru fast food restaurant on 3.73 acres, developed with the Arlington Plaza, and Design Review of the plot plan and building elevations for the drive-through restaurant, located at 6350 Van Buren Boulevard, situated at the southwest Arlington Boulevard and Van Buren Boulevard, in the CR - Commercial Retail Zone, in Ward #6.	Riverside	CA	12	3,000		CPC AP 01/26/2017
P16-0301	9644 Magnolia Avenue	DR; 12,000-square foot retail and commercial project with 55 parking stalls on vacant 40,000-square foot Successor Agency-owned parcel	Riverside	CA	0.88	12,000		DRC AP 10/26/2016
P16-0314	147-310-036	Tentative tract map to subdivide a 12.5 acre site into 5 parcels in the Residential Conservation zone.	Riverside	CA	12.5		5	CPC AP 01/26/2017
P16-0316	901 Marlborough Avenue	DR; Plot plan + elevations for the construction of a 20,360- and 42,630-sq ft multi-tenant industrial warehouse buildings, 149 parking spaces and related site improvements.	Riverside	CA	3.76	62,990	2	ZA AP 11/14/2016
P16-0321 P16-0323 P16-0324 P16-0325	3650 Market Street	CUP, COA, VR, PM; Stalder Plaza - 165 residential units, 22,000sf retail and subterranean parking. 0-foot rear-yard setback along alley frontage where 15 feet is required. Commercial Airspace Condominium Map	Riverside	CA	0.53	22,000	165	CPC AP 04/20/2017
P16-0329	1695 Spruce Street	CUP; NON-PROFIT CHARTER SCHOOL WITHIN AN EXISTING MULTI-TENANT COMPLEX IN THE BUSINESS MANUFACTURING PARK ZONE.	Riverside	CA	1.88	6647		CPC AP 10/20/2016
P16-0396 P16-0397 P17-0440	3640 Central Avenue	CUP, DR; NEW CHI-FIL-A ON CENTRAL AVE. LOCATED WITHIN THE COMMERCIAL RETAIL ZONE IN THE MAGNOLIA AVENUE SPECIFIC PLAN OVERLAY.	Riverside	CA	0.88	4,721		CPC AP 06/29/2017
P16-0413 P16-0414	7820 Lincoln Avenue	Design Review of project plans for the construction of a 100,974-square-foot light industrial building.	Riverside	CA	5.45	100,974		DRC AP 02/22/2017
P16-0423 P16-0424	6264 Nogales Street	DR, VR; PROPOSING TWO COMMERCIAL BUILDINGS, ONE 7,030 SF LEGAL OFFICE AND A 4,140 SF MEDICAL OFFICE WITH A PARKING VARIANCE.	Riverside	CA	0.97	11,170		DRC AP 09/30/2016
P16-0425 P16-0426	8389 Mount Hood Road	CUP, DR; New 39-unit senior housing complex on two parcels totaling 1.5 acres in the R-1-7000 zone	Riverside	CA	1.5		39	CPC AP 03/23/2017
P16-0436	1020 Marlborough Avenue	DR; Proposing the development of a new 5,300 sf cmu research building, a 3,000 sf pre-manufactured Laboratory. Also, future proposal of a 680 sf greenhouse	Riverside	CA	1.04	8,300		DRC AP 08/24/2016
P16-0452	8432 Magnolia Ave	Dr; Proposal by Steve Smith, on behalf of CBU, to consider a DR for the construction of a 112 space surface parking lot, on the north side of Diana Avenue between Adams Street and Emily Court, at 8432 Magnolia Ave, in the CVUSP MU/R - Mixed Use/Residential ZONE of the CBU Specific Plan, in Ward 5.	Riverside	CA				DRC AP 01/11/2017
P16-0454	4663 Hedrick Ave	Project proposing 7 single-family lots in addition to the existing residence. All lots are proposed to access a privately maintained road including public connections to all utilities and adding full width public street improvements on Hedrick Avenue frontage.	Riverside	CA	1.72		8	CPC AP 02/08/18
P16-0504	1420 University Ave	DR; remodel of an existing Taco Bell, removal of playground equipment, trellis, and an upgrade to façade per chain guidelines	Riverside	CA				DRC AP 10/25/2016
P16-0510 P16-0511 P16-0512	3345 Madison St	1) Conditional Use Permit to permit a 3,288 square foot automated carwash facility on 0.5 acres; 2) Design Review of the plot plan and building elevations and landscape plan for the construction of the automated carwash facility; and 3) Variance to allow a reduced side yard building setbacks.	Riverside	CA	0.5	3,288		CPC AP 12/15/2016

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P16-0532 P16-0533 P16-0534 P16-0535	4508 Olivewood Ave	Design Review to facilitate construction of a two-story, 27,000 square foot medical office building and Variances to permit fewer parking spaces than required by Code and to allow reduced landscape setbacks along Mulberry Street and Olivewood Avenue, on a vacant, eleven-parcel site	Riverside	CA	1.89	27,000		DRC AP 10/12/2016
P16-0544	4253 Fairgrounds Street	Design Review to facilitate construction of a 15,000 square foot warehouse building and related site improvements on a vacant site	Riverside	CA	0.91	15,000		DRC AP 01/06/2017
P16-0556 P16-0567 P15-1035	APN: 263-091-015	To permit eight industrial buildings ranging in size from 12,015 to 35,661 square feet. The following entitlements are requested: 1) Specific Plan Amendment to amend the land use designation and establish development standards for properties located north of Alessandro Boulevard, south of Cottonwood Avenue, west of Old 215 Frontage Road, and east of Interstate 215 from the Retail Business Office and Industrial Support land use designations to the Industrial land use designation; 2) a Tentative Parcel Map for the subdivision of two parcels into six parcels, ranging in size from 27,099 square feet to 72,159 square feet; and 3) Design Review.	Riverside	CA	10.2	176,149		CC AP 11/07/2017
P16-0612 P16-0613 P16-0614	10920 Magnolia Avenue	The construction of an 11,000 square foot multi-tenant commercial building on two contiguous parcels, totaling 1.37 acres, for the establishment of restaurants. The following entitlements are requested: 1) Rezone 1 acre of the 1.37 site from R-1-7000-SP - Single-family Residential and Specific Plan (Magnolia Avenue) Overlay Zones to CR-X-10-SP - Commercial Retail, Building Setback (10 feet - Magnolia Avenue), and Specific Plan (Magnolia Avenue) Overlay Zones; 2) Minor Conditional Use Permit for the on-sale of alcoholic beverages at the proposed restaurants, and 3) Design Review of the plot plan and building elevations for the construction of the commercial building.	Riverside	CA	1.37	11,000		CPC AP 07/27/2017
P16-0620 P16-0621	1168 Stacy Court	Minor Conditional Use Permit and Design Review of a plot plan and building elevations to facilitate construction of a 3,008 square foot vehicle repair facility on a vacant, two-parcel site	Riverside	CA	0.21	3,008		DRC AP 09/05/2018
P16-0671 P16-0672 P16-0673	18876 Van Buren Blvd	1) Design Review of a plot plan and building elevations for the construction of a 23,290 square foot two story medical office building on a 1.62 acre site; 2) Parcel Map (PM-37218) to subdivide two contiguous parcels into 18 condominium parcels; and 3) Variance to allow a building height greater than required by the Building Stories Overlay of the Zoning Code.	Riverside	CA	1.62	23,290		CPC AP 06/29/2017
P16-0690 P16-0691	10660 Magnolia	Conditional Use Permit and Design Review for the construction of a new 4,473 square foot fast food drive-thru restaurant (Raising Canes) with outdoor patio and 59 parking spaces	Riverside	CA	1.71	4,473		CPC AP 02/23/2017
P16-0716 P16-0717	3605 Market	1) a Certificate of Appropriateness to a City Structure of Merit for façade improvements; and 2) a Minor Conditional Use Permit for entertainment within the Fox Entertainment Plaza proposed to include 15,500 square feet of restaurant and storage space for 14 independent eateries and exclusive use of the 2,500 square foot outdoor patio area	Riverside	CA	0.78	500 in existing building		DRC AP 10/19/2017

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P16-0727 P16-0728 P16-0729 P16-0730	3870 Main St	Develop a 42,974-square-foot, five-story mixed-use building containing 35 dwelling units, 5,684 square feet of commercial space and 44 parking stalls on a 0.36-acre parcel developed with a public parking lot. Entitlements for consideration include: 1) a Conditional Use Permit to permit the construction of a mixed-use project with a density greater than 60 dwelling units per acre; 2) Parking Variances to allow fewer parking stalls than required by Code, reduced internal drive aisle widths, and the use of tandem parking stalls; and 3) Building Setback Variances to allow encroachment of the structure into the required 15-foot rear-yard setback, and encroachment of the residential portion of the structure into the required 15-foot interior side yard setback.	Riverside	CA	0.36	8,197	36	CPC AP 02/09/2017
P16-0731 P16-0732 P16-0733	1080 Marlborough Ave	1) Parcel Map (PM-37238) to subdivide a 4.05 acre parcel into five parcels; 2) Design Review of a plot plan and building elevations for the construction of five warehouse buildings ranging in size from 10,000 to 13,850 square feet in size; and 3) Grading Exception to allow a retaining wall to exceed the maximum height required by the Grading Code.	Riverside	CA	4.05	74,210		CPC AP 03/09/2017
P16-0774	South Side of Bradley Street east of Golden Star Avenue, west of Harbart Drive and north of Highridge Street	Tentative Tract Map (TM-37177) to subdivide 34.6 acres into 48 Single-family residential lots and one (1) lot for a retention basin.	Riverside	CA	34.6		48	
P16-0862 P16-0863 P16-0864	4399 Main	To consider the following entitlements for the establishment of a 1,425 square foot restaurant with 3,100 square feet of outdoor dining on a 0.30-acre parcel, developed with an existing, abandoned vehicle fuel station: 1) a Minor Conditional Use Permit; to permit a restaurant larger than 1,500 square feet, with outdoor dining and on-sale of alcoholic beverages; 2) Design Review for the conversion of an existing 925-square-foot vehicle fuel station building to a restaurant, construction of a 500-square-foot addition and a 1,715 square foot attached canopy, and reconfiguration of an existing parking lot; and 3) a Variance to allow the on-sale of alcohol within 600 feet of a public park and hospital.	Riverside	CA	0.3	4,525		DRC AP 12/20/2018
P16-0885 P17-0090 P16-0886	Myers Street and Primrose	Planned Residential Development and Tentative Tract Map (TM 37219) to subdivide seven, vacant parcels into 64 residential lots for the construction of single family residences, and four lots for common open space	Riverside	CA	9.3		64	CPC 12/14/2017
P17-0001	North of Paschels Way and east of Clark Street	Tentative Tract Map (TM 37279) to subdivide one vacant parcel, totaling 1.6 acres into 7 residential lots	Riverside	CA	1.6			
P17-0030 P17-0031	3393 Mission Inn Avenue	Conditional Use Permit to permit the construction of a mixed-use project containing: 72 affordable housing units, 5,400 square feet of office and meeting space, 3,700 square feet of museum/exhibition space, and 77 parking spaces	Riverside	CA	1.38	9,100	72	CHB AP 10/18/2017
P17-0038	8043 Indiana	Proposed demolition of a 2,205 square foot showroom and office building, construction of a new two-story, 8,455 square foot showroom with a service drive area, and construction of a 3,975 square foot addition to an existing service building, on two contiguous parcels totaling 1.85 acres, located at 8043 and 8069 Indiana Avenue.	Riverside	CA	1.85	12,430		DRC AP 09/05/2018

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P17-0073	4790 La Sierra Avenue	Proposal by Ryan Condron of Luv2Play Riverside to consider a Conditional Use Permit to establish an 18,000-square-foot indoor playground facility including 5,534 square feet of play area and incidental café, coffee bar, party rooms, kitchen and service areas within an existing 131,000-square-foot multi-tenant commercial complex, located at 4860 La Sierra Avenue, on the west side of La Sierra Avenue between Schuyler Avenue and Pierce Street, in the CG – Commercial General Zone, in Ward 7.	Riverside	CA		18,000 in existing building		CPC AP 02/23/17
P17-0097 P17-0098 P17-0099 P17-0228	6289 Palm Avenue	Proposal by David Peery, on behalf of Kingsfield Development Corporation, to consider: 1) Design Review for the construction of a self-storage facility with 5 self-storage buildings totaling 96,022 square feet, a 1,575 square foot management office, and a 1,575 square foot caretaker unit on two contiguous parcels totaling 3.02 acres; 2) Variance to allow the building lot coverage to be increased by 10 percent for a maximum 50 percent lot coverage; and 3) Variance to allow the building height and building stories to be increased to 36 feet and two stories. This property is located at 6289 Palm Avenue, situated at the northwest corner of Palm Avenue and Dewey Avenue, in the R-1-7000 – Single Family Residential Zone, in Ward 3.	Riverside	CA	3.02	99,172	1	CC AP 03/27/2018
P17-0100 P17-0105 P17-0559	3763 Tibbetts Street	Proposal by Liviu Eftimie to consider: 1) a Design Review of project plans for a 2,500-square-foot expansion of an existing 2,770-square-foot medical office building, and a surface parking lot expansion; and 2) a Variance to allow the expansion to encroach into the required 15-foot rear yard setback and to allow fewer parking spaces than required by the Zoning Code. This property is located on two parcels totaling 0.41 acres, developed with existing office buildings, located at 3757-3763 Tibbetts Street, on the north side of Tibbetts Street, east of Magnolia Avenue and west of Brockton Avenue, in the O-SP – Office and Specific Plan (Magnolia Avenue) Overlay Zones, in Ward 3.	Riverside	CA	0.41	2,500		DRC AP 09/18/2017
P17-0190 P17-0288	7229 Lincoln Avenue	Proposal by Charles Brown on behalf of Icon Vehicle Dynamics, to consider: 1) a Design Review of project plans for a 24,480-square-foot expansion of an existing 33,860-square-foot warehouse building, and 2) a Variance to allow 78 parking spaces where the Zoning Code requires 110 parking spaces on a 3.01-acre site, located at 7929 Lincoln Avenue, on the northwest corner of Lincoln Avenue and Jefferson Street, in the BMP – Business and Manufacturing Park Zone, in Ward 4.	Riverside	CA	3.01	24,480		DRC AP 06/07/2017
P17-0239 P17-0241	7979 Auto Drive	Proposal by Beth Keeler of Whitfield & Associates Architects on behalf of Kienle & Kienle Investments to consider the following entitlements for an auto dealership: 1) the Summary Vacation of approximately 10,000 square feet of excess right-of-way; and 2) Design Review of project plans for the construction of a 53,878 square foot auto dealership and service center (Walter’s Sprinter and Certified Pre-Owned Mercedes-Benz), on a 2.52-acre site developed with existing vehicle sales and service buildings to be demolished, located at 7979 Auto Drive, on the entire block bounded by Auto Drive, Jefferson Street, Indiana Avenue and Detroit Drive, in the CG-SP – Commercial General and Specific Plan (Riverside Auto Center) Overlay Zones, in Ward 4.	Riverside	CA	2.52	53,878		DRC AP 08/28/2018

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P17-0243	3909 Van Buren Boulevard	Proposal by Niall Saunders, on behalf of Saunders & Wiant Architects, to consider a Design Review of project plans for the construction of a 4,722 square foot, two-tenant dental office building, on two contiguous parcels totaling 0.27 acres, located at 3909 and 3915 Van Buren Boulevard, on the northeast corner of Van Buren Boulevard and Hayes Street, in the O-SP – Office and Specific Plan (Magnolia Avenue) Overlay Zones, in Ward 5.	Riverside	CA	0.27	4,722		DRC AP 11/17/2017
P17-0257 P17-0258	9241 Audrey Avenue	Proposal by Dan Hinson of HC&D Architects to consider a Conditional Use Permit and Design Review for the construction of a 2,558 square foot Taco Bell drive-thru restaurant and associated parking on a vacant 0.70 acre parcel, located at 9241 and 9265 Audrey Avenue, situated on the north side of Audrey Avenue and east of Van Buren Boulevard, in the CR-X-50-S-2-AP - Commercial Retail, Building Setback (50-feet from the easterly property line), Building Stories (two stories), and Airport Protection Overlay Zones, in Ward 6.	Riverside	CA	0.7	2,558		CPC 12/14/2017
P17-0268	5900 Brockton Avenue	Proposal by Nelson Smith on behalf of Pacific Grove Hospital to consider revisions to a Conditional Use Permit (Planning Case C-46-589) to permit a 18,200 square foot addition to an existing hospital, modifications of the parking lot layout and circulation, and addition of three bio-retention areas. This 3.75-acre parcel is located at 5900 Brockton Avenue, situated on the southeast corner of Brockton Avenue and Maplewood Place, in the R-1-7000-SP – Single Family Residential and Specific Plan (Magnolia Avenue) Overlay Zones, in Ward 1.	Riverside	CA	4	18,200		CPC 12/14/2017
P17-0360 P17-0361	1001 E. Alessandro Boulevard	Proposal by Chad Hamilton of Northwest Commercial Advisors to consider a Conditional Use Permit and Design Review for the construction of a 1,857 square foot Jack In The Box drive-thru restaurant and associated parking on a vacant 0.45 acre parcel, located at 1001 E. Alessandro Boulevard, situated on the southeast corner of Alessandro Boulevard and Barton Street, in the CR – Commercial Retail Zone, in Ward 4.	Riverside	CA	0.45	1,857		CPC 11/02/2017
P17-0419 P17-0420 P17-0421	1301 University Avenue	Proposal by Katie Rounds of the Kaidence Group, on behalf of Starbucks, to consider the following entitlements: 1) a Specific Plan Amendment, to amend the University Avenue Specific Plan to allow drive-thru restaurants within Subdistrict 3; 2) a Conditional Use Permit to permit the drive-thru restaurant; and 3) a Design Review of project plans for the construction of a 2,819 square-foot drive-thru restaurant. The subject 0.88 acre site is currently developed with a 3,020 square-foot restaurant building, located at 1301 University Avenue, on the northwest corner of University and Iowa Avenues, in the CR-SP – Commercial Retail and Specific Plan (University Avenue) Overlay Zones, in Ward 2.	Riverside	CA	0.88	2,819		CPC AP 03/08/2018

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P17-0466 P17-0467 P17-0468 P17-0469 P17-0470 P17-0471 P17-0472	3575-3661 Merrill Avenue	Proposal by Richard Hamm of Pelican Properties to construct a 98,608 square-foot mixed-use development containing 108 dwelling units, 1,200 square foot commercial area, and 192 parking stalls on six contiguous parcels, totaling 3.14 acres, partially developed as a surface parking lot. Entitlements for consideration include: 1) amend the Magnolia Avenue Specific Plan to include MU-U – Mixed Use – Urban as a General Plan Land Use Designation in the Magnolia Center District; 2) amend the General Plan Land Use Designation from C – Commercial to MU-U – Mixed Use - Urban; 3) amend the zoning designation from CG-SP – Commercial General and Specific Plan (Magnolia Avenue) Overlay Zones to MU-U-SP – Mixed Use – Urban and Specific Plan (Magnolia Avenue) Overlay Zones; 4) Site Plan Review; 5) a Traffic Pattern Modification for the reconfiguration of Merrill Avenue; 6) a Minor Conditional Use Permit for on-site alcohol sales (Type 47 License) in conjunction with the proposed commercial area; and 7) a Variance to allow a reduced rear yard building setback. The property is located at 3575 – 3661 Merrill Avenue, situated on the north side of Merrill Avenue, between Riverside and De Anza Avenues, in the CG-SP – Commercial General and Specific Plan (Magnolia Avenue) Overlay Zones, in Ward 3.	Riverside	CA	3.14	2,400	108	CC AP 05/22/2018
P17-0494 P17-0495 P17-0496	9501 Lincoln Avenue	Proposal by Steve Berzansky of Steven Walker Communities to consider the following entitlements for future development of 6.70 acres, developed with a plant nursery, with future multiple family residential and commercial uses: 1) a General Plan Amendment to amend the land use designation of approximately 4.74 acres from MDR - Medium Density Residential to HDR - High Density Residential and approximately 1.86 acres from MDR - Medium Density Residential to C - Commercial; 2) Zoning Code Amendment to change the zone of approximately 4.74 acres from RE - Residential Estate Zone to R4 - Multiple Family Residential Zone and of approximately 1.86 acres from RE - Residential Estate Zone to CR - Commercial Retail Zone; and 3) a Parcel Map to subdivide the property into three parcels for future multiple family residential and commercial development. This property is located at 9501 Lincoln Avenue, situated on the northwest corner of Lincoln Avenue and Van Buren Boulevard, in Ward 5	Riverside	CA	6.60	Unknown - up to 40,000 commercial	Unknown - up to 190	CC AP 11/19/19
P17-0506 P17-0507	750 Marlborough Avenue	Proposal by Jim Guthrie of Guthrie Companies to consider the following entitlements for the construction of a 346,330 square foot industrial warehouse building, consisting of 6,820 square feet of office use and 339,510 square feet of warehouse area, and associated parking, on two contiguous parcels, totaling 21.32 acres: 1) Design Review of project plans; and 2) a Grading Exception for retaining walls exceeding the maximum height requirements along the east and west property lines. The property is located at 750 Marlborough Avenue and 1550 Research Park Drive, situated at the eastern terminus of Marlborough Avenue and the southwestern terminus of Research Park Drive, in the BMP-SP - Business and Manufacturing Park and Specific Plan (Hunter Business Park) Overlay Zones, in Ward 1.	Riverside	CA	21.32	346,330		CC AP 06/26/2018

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P17-0533	1606 Orange Street	Proposal by BJ Ghuman of Go-Man Constructions and Investments Inc. to consider Tentative Tract Map 37146 to subdivide a partially developed 1.96 acre parcel into seven single-family residential parcels, ranging in size from 7,975 square feet to 12,197 square feet, located at 1606 Orange Street, situated on the southwest corner of the intersection of Orange Street and Tyco Drive, in the R-1-7000 – Single Family Residential Zone, Ward 1.	Riverside	CA	1.96		7	CPC AP 11/01/2019
P17-0567 P17-0568	2909 Lime Street	Parcel Map to subdivide a single parcel into two lots with a Variance to allow 50 feet of street frontage per lot where 60 feet is required.	Riverside	CA	0.39		2	DRC AP 01/08/2018
P17-0583 P17-0584	7918 Lindbergh Drive	Minor Conditional Use Permit and Design Review for a 114-space secured parking lot	Riverside	CA	2.38			DRC AP 12/27/2017
P17-0585 P17-0586 P17-0755 P17-0756 P17-0757	3510-3522 Adams Street	Minor Conditional Use Permit, Design Review and Variances for a five-level, 1,456-space parking structure for California Baptist University	Riverside	CA	3.48			DRC AP 04/12/2018
P17-0627 P17-0628	7434 Diamond Street	Revised Conditional Use Permit and Design Review for expansion on an existing church	Riverside	CA	1.10	7,078 (new)		
P17-0638 P17-0639	6990 Van Buren Boulevard	Conditional Use Permit and Design Review for gas station, two drive through restaurants and a retail shops building - Riverside Gateway Plaza	Riverside	CA	3.90	3,800 (fuel station), 16 fueling positions, 1,152 (car wash), 6,250 (drive thru restaurants), 3,000 (retail)		CC AP 05/21/2019
P17-0667	3775 Fairmount Boulevard	City-initiated closure and vacation of entire segment of Fairmount Boulevard between Mission Inn and University Avenues, in conjunction with new Main Library	Riverside	CA	0.46	42,000 (library)		CC AP 05/22/2018
P17-0686 P17-0687	16151 Alta Cresta Avenue	Conditional Use Permit and Design Review for a new drive-through fast food restaurant on site developed with existing SFR to be demolished	Riverside	CA	0.73	2,558	-1	CPC AP 09/20/2018
P17-0688 P17-0689	18806 Van Buren Boulevard	Conditional Use Permit and Design Review for a new 5,440-square-foot automated car wash	Riverside	CA	2.20	5,440		CPC AP 10/17/19
P17-0690 P17-0691 P17-0692 P17-0693 P17-0694	10525 Hole Avenue	General Plan Amendment from MDR to C; Rezone from R-1-7000 to CG; Conditional Use Permit for drive-thru business; Parcel Map to subdivide 1.46 acres into two lots; and Design Review for new automated car wash	Riverside	CA	1.46	5,380		CC AP 11/19/19
P17-0761 P17-0762 P17-0763 P17-0764	4019 Mission Inn Avenue	Proposal by Russ Haley of CityMark Communities, LLC to consider the following entitlements: 1) a Specific Plan Amendment to amend the Neighborhood Commercial District of the Downtown Specific Plan to allow residential uses subject to a Conditional Use Permit; 2) a Conditional Use Permit to permit the construction of 13 attached single family dwellings; and 3) a Condominium Map to subdivide a 0.66-acre parcel into 13 condominium lots. This property is located at 4019 Mission Inn Avenue, situated on the northwest corner of Mission Inn Avenue and Chestnut Street, in the DSP-CR - Downtown Specific Plan-Neighborhood Commercial District, in Ward 1	Riverside	CA	0.66		13	CC AP 07/24/2018

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P17-0813 P17-0814 P17-0846	Van Buren Boulevard and Jurupa Avenue	CONDITIONAL USE PERMIT (P17-0813) AND DESIGN REVIEW (P17-0814) TO ALLOW FOR THE CONSTRUCTION OF A 5,400 SF AUTOMATED CARWASH FACILITY ON 2.33 ACRES, SITUATED ON THE NORTHWEST CORNER OF JURUPA AV. AND VAN BUREN BLVD., IN WARD 7. Rezone from RE - Residential Estate to CG - Commercial General.	Riverside	CA	2.33	5,400		CC AP 9/17/19
P17-0853 P17-0854	1705-1761 Seventh Street	General Plan Amendment from MDR to HDR and Rezone from R-1-7000 to R-3-1500 for consistency with Chicago-Linden Strategic Plan, in conjunction with Housing Authority redevelopment project	Riverside	CA	2.04			CC AP 09/20/2018
P17-0872	11754 Warm Springs Road	Revised Conditional Use Permit to expand an existing Assemblies of People - Non-Entertainment with new 5,560sf sanctuary in an existing industrial building	Riverside	CA	4.95	5,560 (existing building)		CPC AP 09/20/2018
P17-0873	9531-9597 Rudicill Street	Design Review of plot plans and building elevations for two spec light industrial buildings	Riverside	CA	3.71	66,300		DRC AP 08/22/2018
P17-0883 P17-0884 P17-0885	3490 Madison Street	Design review (P17-0883) of project plans for Phase II of Madison Plaza, which includes the construction of a 17,889 square foot grocery store with the off-sale of alcoholic beverages and an 8,065 square foot in line tenant spaces	Riverside	CA	7.04	25,954		DRC AP 06/13/2018
P17-0929 P17-0930 P17-0931 P17-0932	Talcey Terrace SW'ly Overlook Parkway	TENTATIVE TRACT MAP 37392 PROPOSING A SUBDIVISION OF A 16.8 ACRE LOT INTO EIGHT (8) SINGLE-FAMILY RESIDENCES; variances for lot size, width, corridor access	Riverside	CA	16.79		8	CC AP 09/04/2018
P17-0946	9315 Magnolia Avenue	DESIGN REVIEW FOR NEW 2 STORY OFFICE/MEDICAL BUILDING - 4415 SF - IN THE COMMERCIAL RETAIL ZONE (MAGNOLIA AVENUE SPECIFIC PLAN)	Riverside	CA	0.23	4,415		9/18/2019
P17-0960 P17-0961	2002 Iowa Avenue	CONDITIONAL USE PERMIT FOR A 9,701 SQUARE FOOT ASSEMBLY OF PEOPLE USE WITH A 2,700 SQUARE FOOT SANCTUARY WITHIN AN EXISTING OFFICE COMPLEX IN THE BMP-SP (HUNTER BUSINESS PARK) AND A PARKING VARIANCE.	Riverside	CA	9.25	9,700		CPC AP 08/23/2018
P18-0018 P18-0019	10000 Magnolia Avenue	Design Review and Variance to convert existing 22,000-square-foot furniture store to office space and to construct a single-level parking deck with 35 spaces	Riverside	CA	1.22	21,120		DRC AP 07/11/2018
P18-0020 P18-0021 P18-0022 P18-0023	3444 Center Street	Rezoning, Tentative Map, Conditional Use Permit and Design Review to establish a 104-lot mobile home park with onsite amenities	Riverside	CA	12.88		104	CC AP 12/03/19
P18-0028 P18-0029 P18-0030 P18-0031 P18-0032 P18-0033 P18-0034	NEC Central Avenue and Sycamore Canyon Boulevard	REZONE, VACATION, SUMMARY VACATION, 2 CONDITIONAL USE PERMITS, DESIGN REVIEW, AND PARCEL MAP FOR A PROPOSED VEHICLE FUEL STATION WITH A 3,200 SQ FT CONVENIENCE STORE WITH TYPE 20 BEER AND WINE LICENSE AND A 3,800 SQ FT RESTAURANT.	Riverside	CA	2.19	3,200 C-store, 3,800 fast food, 6 MPDs		CC AP 06/11/2019
P18-0035 P18-0037 P18-0053	6610 Doolittle Avenue	Proposal by Richard Finkel of Bundy-Finkel Architects to consider the following entitlements for the construction of seven industrial buildings, ranging in size from 11,193 to 20,250 square feet, and 199 parking stalls: 1) a Parcel Map to subdivide four vacant, parcels totaling 4.98 acres into seven parcels ranging in size from 0.60 to 0.80 acres; 2) a Design Review of project plans; and 3) a Variance to allow Building 7 to encroach into the rear yard setback.	Riverside	CA	4.98	107,939		DRC AP 07/25/2018

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P18-0083 P18-0084 P18-0085	3300 Central Avenue	PROPOSED CONDITIONAL USE PERMIT FOR CONSTRUCTION OF A 2-STORY 2,916 SF MAUSOLEUM WITH 512 CRYPTS, 396 GRAVE SITES, AND 3,060 SF OF COVERED AREA, WITH NEW ACCESS ROAD AT OLIVEWOOD MEMORIAL PARK	Riverside	CA	52.74	2,916 (908 gravesites)		CPC AP 05/16/2019
P18-0091 P18-0092 P18-0093 P18-0094 P18-0095 P18-0096 P18-0097 P18-0098 P18-0099 P18-0100 P18-0101	NEC Orange Street and Vista Avenue	THE EXCHANGE - Master-planned mixed use development with 482 multi-family residential units, 44,500 square feet of retail and restaurant space, fuel station with 4,000-sf convenience store and 8 MPDs/16 pumps, two hotels totaling 229 rooms and 27 RV camping spaces. General Plan Amendment, Rezone, Site Plan Review, Conditional Use Permits (5), Tentative Parcel Map, Minor CUP and Design Review. APNS: 209-151-029, 209-151-036 209-020-022, 209-020-047 209-020-048, 209-020-059 209-020-060, 209-020-061 209-020-062, 209-060-023 209-060-027, 209-060-029 209-070-015	Riverside	CA	35.40	48,500 retail/restaurant, 8 MPDs	482 (residential), 229 (hotel), 27 (RV)	CC AP 06/04/2019
P18-0104 P18-0105 P18-0106	8230 Magnolia Avenue	CUP, DR and Variance to convert an existing 32-unit apartment complex to a 116 bed student housing development on 1.66 acres.	Riverside	CA	1.66		32 units/116 beds	CPC AP 04/19/2018
P18-0122 P18-0123	3723 Strong Street	CUP and DR to consider the construction of a 58-unit senior housing complex consisting of a 57,799 square foot two-story building on 2.01 acres	Riverside	CA	2.01		58	CPC AP 8/23/2018
P18-0151	3536 Adams Street	DESIGN REVIEW FOR THE CONSTRUCTION OF 12,500 SF NEW ATHLETIC PERFORMANCE CENTER THE RENOVATION OF 6,350 SF AND ADDITION OF 11,200 SF TO THE EXISTING RECREATION CENTER, AND ASSOCIATED 19,300 SF OF ENHANCED PEDESTRIAN PROMENADES TO SOUTH/WEST AT CBU.	Riverside	CA	12.72	23,697		DRC AP 05/16/2018
P18-0172	9501 Lincoln Avenue	DESIGN REVIEW OF PLOT PLAN AND ELEVATIONS FOR 180-UNIT MULTI-TENANT APARTMENT COMPLEX WITH COMBINED LEASING AND RECREATIONAL BUILDING.	Riverside	CA	5.34		180	DRC AP 08/15/2018
P18-0189 P18-0190 P18-0191 P18-0192 P18-0193	10434 Arlington Avenue	To consider the following entitlements for a multi-tenant commercial center: 1) a Conditional Use Permit for a 3,000-square-foot drive-thru restaurant and associated queuing lane; 2) a Conditional Use Permit for a 3,000-square-foot automated vehicle wash facility and associated queuing lane and vacuum bay canopy; 3) Design Review of the plot plan and building elevations for the drive-thru restaurant, vehicle wash facility and a 15,768-square-foot, two-story multi-tenant retail and office building; 4) a Variance request to allow fewer parking spaces than required by Code; and 5) a Variance request to allow a portion of the proposed on-site parking spaces to have compact dimensions.	Riverside	CA	1.48	3,000 drive-thru, 3,000 express car wash, 15,768 retail/office		CPC AP 3/05/20
P18-0199 P18-0200	2375 Third Street	DESIGN REVIEW OF PLOT PLANS AND ELEVATIONS FOR THE CONSTRUCTION OF A 26,076 SQ. FT. SINGLE TENANT CONCRETE BLOCK TYPE III - B INDUSTRIAL BUILDING AND ASSOCIATES 8,147 SQ FT OF LANDSCAPING & ASSOCIATED PARKING VARIANCE TO SHARE PARKING WITH ADJACENT SITE OWNED BY SAME OWNER	Riverside	CA	3.62	26,076		9/18/2019

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P18-0255	17815 Van Buren Boulevard	Design Review of project plans for the construction of a 4,400 square foot, multiple tenant, commercial building and drive-thru restaurant previously reviewed under P14-0973, P15-0303, P15-0304, and P15-0305. The site is located on the southwest corner of Van Buren Boulevard and Fred Street, in the CR- Commercial Retail Zone, in Ward 4.	Riverside	CA	1.94	4,400		DRC AP 07/25/2018
P18-0279 P18-0280 P18-0281 P18-0282	4800 Palm Avenue	Proposal to construct a 51,998 square foot two-story senior housing complex consisting of 59 dwelling units: 1) a Zoning Code Amendment to rezone a portion of the site from O-Office Zone to R-1-7000 Single Family Residential Zone, 2) A Conditional Use Permit to permit the construction of a senior housing complex, 3) Design Review of project plans, and 4) a Grading Exception for retaining walls up to 21 feet high.	Riverside	CA	1.96		59	CC AP 08/28/2018
P18-0295 P18-0331 P18-0330	3753 Myers Street	Proposal by City of Riverside Housing Authority to consider the following entitlements for the construction of a four unit condominium project on 0.57 acres: 1) a Zoning Code Amendment to rezone the project site from CR-NC-SP - Commercial Retail, Neighborhood Commercial, and Specific Plan (Magnolia Avenue) Overlay Zones to MU-V-SP - MU-V - Mixed Use-Village and Specific Plan (Magnolia Avenue) Overlay Zones; 2) a Parcel Map to subdivide the site into one parcel for condominium purposes; and 3) a Design Review of project plans and building elevations.	Riverside	CA	0.57		4	CPC AP 08/09/2018
P18-0296 P18-0297 P18-0298 P18-0299 P18-0300 P18-0301 P18-0302 P18-0303	9608 Indiana Avenue	To consider the following entitlements for a commercial development consisting of a vehicle fuel station with eight MPDs; a 5,000-square-foot multi-tenant convenience store building; a 4,495-square-foot drive-thru vehicle wash facility; a 2,533-square-foot drive-thru restaurant; a 5,555-square-foot restaurant; and a 4-story, 84-room hotel building and related site improvements: 1) a General Plan Amendment to amend the General Plan 2025 Land Use Designation from B/OP – Business and Manufacturing Park to C – Commercial; 2) a Rezoning request to change the zoning designation from BMP – Business and Manufacturing Park to CG – Commercial General; 3) a Conditional Use Permit to permit the establishment of a vehicle fuel station with the concurrent off-sale of beer and wine (Type 20 license); 4) a Conditional Use Permit to permit the off-sale of alcohol (Type 21 license); a Conditional Use Permit to permit the establishment of an automated drive-thru vehicle wash facility; 5) a Conditional Use Permit to permit the establishment of a hotel; 6) a Conditional Use Permit to permit the establishment of a drive-thru restaurant; and 7) Design Review of project plans.	Riverside	CA	6.03	5,000 C-Store, 8 MPDs, 2,533 drive-thru restaurant, 5,555 sit-down restaurant	84 (hotel)	
P18-0364	3434 Arlington	Design Review of project plans for the construction of a 1,100-square-foot retail building, expansion of an existing parking lot and reconfiguration of an existing drive-thru restaurant vehicle queueing lane.	Riverside	CA	1.24	1,100		DRC AP 09/19/2018
P18-0367 P18-0368	7351 Lincoln Avenue	Entitlements for the construction of a 210 unit condominium project: 1) a Tentative Tract Map (TM-37541) for condominium purposes; and 2) a Design Review of project plans and building elevations.	Riverside	CA	9.48		210	CPC AP 08/23/2018

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P18-0396 P18-0370	3907 Polk Street	Entitlements for the construction of a 92-unit multiple-family residential development on 2.92 vacant acres: 1) Zoning Code Amendment to change the zone of the project site from R-1-7000-SP – Single Family Residential Zone and Specific Plan (Magnolia Avenue) Overlay Zones to MU-V-SP – Mixed Use – Village and Specific Plan (Magnolia Avenue) Overlay Zones; and 2) Site Plan Review of project plans.	Riverside	CA	2.92		92	CPC AP 05/16/2019
P18-0403	7137 Margeurita Street	Tentative Parcel Map to subdivide one parcel into three lots for single-family residential development	Riverside	CA	0.50		3	DRC AP 07/25/2018
P18-0432 P18-0433 P18-0434 P18-0435 P18-0436 P18-0437 P18-0571 P18-0612	3505 Van Buren Boulevard	Entitlements for the construction of a commercial shopping center: 1) A Specific Plan Amendment to amend the Magnolia Avenue Specific Plan to permit a Community Entry Sign (freeway oriented sign); 2) a Zoning Code Amendment to adjust the boundaries of the Neighborhood Commercial Overlay Zone; 3) a Conditional Use Permit to permit a 3,700 square foot fast food drive-thru restaurant; 4) a Conditional Use Permit to permit a vehicle fuel station with a 3,800 square foot convenience store with off-sale of beer/wine (Type 20 Alcohol License) and a 1,300 square foot quick service restaurant; 5) a Conditional Use Permit to permit an automated car wash facility; 6) a Parcel map to subdivide the property into three parcels; 7) Design Review of project plans, including a 12,000 square foot multi-tenant commercial building; and 8) a Variance to allow alcohol sales within 100 feet of single family residences. The 3.93 acre site consists of two contiguous parcels and is developed with an abandoned single-family residence, located at 3483 and 3505 Van Buren Boulevard, situated on the northeast corner of State Route 91 and Van Buren Boulevard, in the CR-SP Commercial Retail and Specific Plan (Magnolia Avenue) Overlay Zones and the CR-NC-SP - Commercial Retail, Neighborhood Commercial and Specific Plan (Magnolia Avenue) Overlay Zones, in Ward 5.	Riverside	CA	3.90	3,800 C-Store, 8 MPDs, 1,300 Restaurant, 3,700 Drive-thru restaurant, 12,000 retail		CC AP 12/17/19
P18-0526 P18-0527 P18-0528 P18-0529	4890 Van Buren Boulevard	Entitlements for the construction of a fueling station: 1) a Conditional Use Permit to permit a vehicle fuel station in conjunction with a convenience store with off-sale of beer and wine (Type 20 Alcohol License); 2) Design Review of project plans; 3) a Variance to allow alcohol sales within 100 feet of an existing residential dwelling; and 4) A Variance to allow alcohol sales within 1,000 feet of another business licensed for off-sale of alcoholic beverages. The project site consists of two contiguous parcels, totaling 0.78 acres, located at 7410 Wells Avenue and 4890 Van Buren Boulevard, situated on the southwest corner of Van Buren Boulevard and Wells Avenue, in the CR - Commercial Retail Zone	Riverside	CA	0.78	3,010 C-Store, 6 MPDs		CPC AP 05/02/2019
P18-0563 P18-0569	8432 Magnolia Ave	Certificate of Appropriateness and Variance for development of 185,000-square-foot, 1,198-bed student housing complex	Riverside	CA	7.50		1,198 beds	CHB AP 10/19/2018
P18-0595	1049 Spruce Street	Design Review of project plans for new 115,000-square-foot light industrial/warehouse building on 7.22 acres.	Riverside	CA	7.22	115,000		DRC AP 06/12/2019
P18-0600	3765 La Sierra Avenue	Design Review for the demolition of an existing 6,000 square foot restaurant building and construction of a new 6,000 square foot multi-tenant commercial building on a 0.85 acre parcel	Riverside	CA	0.85	6,000		DRC AP 05/01/2019
P18-0603	7400 Jurupa Avenue	Entitlements to expand an existing 44,951 square foot warehouse building by 21,526 square feet: 1) Design Review of project plans; 2) a Variance to allow fewer parking spaces than required by Code.	Riverside	CA	3.39	21,526		DRC AP 01/09/2019

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P18-0646 P18-0648 P18-0649	8283 Arlington Avenue	Entitlements for the construction of a vehicle fuel station: 1) a Conditional Use Permit to replace the existing development with a vehicle fuel station including a fueling canopy and a 2,356-square-foot convenience store; 2) Design Review of project plans; and 3) a Variance to allow a reduced rear yard building setback.	Riverside	CA	0.48	2,356 C-Store; 4 MPDs		CPC AP 12/13/2019
P19-0022 P19-0024 P19-0026 P19-0027 P19-0028	19260 Van Buren Boulevard	Parcel Map, Design Review, Variance, and Conditional Use Permit to construct a 4,319 square foot Panera Bread and drive-thru	Riverside	CA	7.72	4,319		
P19-0042	18451 Van Buren Boulevard	Design Review to construct a phased commercial development consisting of a 4,300 square foot Denny's restaurant (phase 1) and a 9,920 square foot office building	Riverside	CA	1.65	14,220		11/13/2019
P19-0077	7509 Arlington Avenue	Design Review for a 102-unit gated apartment complex	Riverside	CA	3.47		102	11/15/2019
P19-0089 P18-0922 P18-0923 P18-0924	2841 Mulberry Street	General Plan Amendment, Zoning Code Amendment, Design Review, and Variance for 10 small cottage affordable housing units	Riverside	CA	0.48		10	CC AP 01/14/20
P19-0151 P19-0152 P19-0153	8719 Trautwein Road	Minor Conditional Use Permit, Design Review, and Variance for the construction of a 21,706-square foot health and fitness facility	Riverside	CA	1.82	21,706		DRC AP 06/12/2019
P19-0225 P19-0226	4046 Tyler Street	Conditional Use Permit and Design Review for a 36-bed assisted living facility	Riverside	CA	0.30	8,190	36	CPC AP 10/31/19
P19-0283 P19-0284 P19-0285	NWC Wells Avenue and Hedrick Avenue	22-lot PRD, APN 147-160-007	Riverside	CA	1.77		22	CPC AP 6/25/20
P19-0325	3630 Center Street	6,000 square foot warehouse and a 2,156 square foot office building on a vacant 2.99-acre site	Riverside	CA	2.99	8,156		
P19-0332 P19-0333	6291 Valley Springs Parkway	New 4340 SF car wash facility	Riverside	CA	1.11	4,333		CPC AP 12/12/19
P19-0388 P19-0389	9174 Indiana	GPA and Rezone; GP MDR to HDR, RZ R-1-7000 to R-3-1500	Riverside	CA	6.86			CC AP 03/03/20
P19-0410 P19-0411 P19-0412	4350 La Sierra Avenue	34-Lot Planned Residential Development	Riverside	CA	3.74		34	CPC AP 11/14/19
P19-0420	Patterson Street and Minnesota Street	33-Unit Apartment Complex	Riverside	CA	1.70		33	12/26/2019
P19-0421	6488 Riverside Avenue	16-unit senior housing apartment complex	Riverside	CA	0.82		16	
P19-0507 P19-0508	4070 Jackson Street	Conditional Use Permit and Design Review of project plans to permit the construction of 50 units of affordable and supportive housing, a 6,700 square foot parish hall, a 2,950 square foot friary and chapel, and a 1,300 square foot greenhouse.	Riverside	CA	3.57		50	CC AP 3/31/2020
P19-0553 P19-0554 P19-0555	11253 Pierce Street	GPA, Rezone, and DR for 79 affordable housing units	Riverside	CA	4.67		79	CC AP 6/02/2020
P19-0560 P19-0561 P19-0562 P19-0563	3466 Mission Inn Avenue	CUP, Variance, and Design Review for the construction of a 194,500 square foot 8-story hotel with 225 rooms	Riverside	CA	0.94	194,500		CC AP 11/16/2021
P19-0570 P19-0571	5041 Sierra Street	CUP and VR for an assisted living facility for 12 people	Riverside	CA	0.28	4,160		CC AP 8/18/2020

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P19-0620 P19-0621	2941 Market Street	CUP and Design Review for 17 one-to-three bedroom townhomes	Riverside	CA	0.64		17	CPC AP 10/15/2020
P19-0626 P19-0627 P20-0024 P20-0025 P20-0258 P20-0282	Alessandro Boulevard and Barton Street	EIR, Parcel Map, Minor Conditional Use Permit, Variance, Grading Exception, and Design Review to permit the construction of two warehouse buildings totaling 603,100 SF	Riverside	CA	49.50	603,100		
P19-0665 P19-0666 P19-0667 P19-0668	4015 13th Street	Design Review and Variances to construct a 128,000 SF 4-story conference center	Riverside	CA	0.93	130,578		DRC AP 07/01/2020
P19-0692	4682 Mitchell Avenue	Design Review for a 56-unit gated apartment community	Riverside	CA	2.47		56	DRC AP 01/28/2020
PR-2021-001201	3102 Main Street	Proposal by Integrity Housing to consider the following entitlements for the development of an 85-unit, multi-family residential development and entitlements for the restoration of an existing 1,000 square foot commercial building and construction of a 500 square foot commercial building: 1) Design Review of project plans; 2) Variance to allow a reduction in the number of required covered parking stalls; 3) Variance to allow greater than 15 percent of the required parking spaces to be compact; 4) Variance to allow a reduced landscape setback along the rear yard; and 5) Variance to allow a reduced parking lot landscape setback along the Second Street frontage. The 1.53-acre vacant project site is located at 3102 Main Street, situated on the south side of Main Street between First and Third streets, bisected by Second Street, in the DSP-RC - Downtown Specific Plan - Raincross District, in Ward 1.	Riverside	CA	1.53	1,500	85	DRC AP 12/15/2021
P19-0775 P19-0776 P19-0777	Sycamore Canyon Boulevard and Central Avenue	General Plan Amendment, Rezone, and Design Review for a 237-unit apartment complex	Riverside	CA	9.77		237	CC AP 10/19/2021
P19-0833	11124 Pierce Street	60 Senior apartments and 5,750 square feet of commercial space	Riverside	CA	2.38	5,750	60	CPC AP 10/28/2021
P19-0863	10431 Magnolia Avenue	Plan review for new ground up mixed use project consisting of 450 for rent apartments homes and 9000 sf commercial/retail area.	Riverside	CA	11.86	9,000	450	CPC AP 02/18/2021
P19-0869 P19-0870 P19-0871 P19-0872	3491 Market Street	Design review for a new 3,400 square foot commercial retail building on vacant property.	Riverside	CA		3,400		
P19-0874	6255 Jurupa Avenue	Design Review of new 3,600 square feet office and warehouse building on vacant site.	Riverside	CA		3,600		DRC AP 12/02/2020
P19-0922	3362 Winstrom Street	Design review of project plans for a new parking lot containing 40 parking spaces	Riverside	CA	0.42			DR AP 05/20/2020
P19-0931	7227 Central Avenue	DR for parking lot expansion	Riverside	CA	10.83			DRC AP 03/11/2020
P19-0941 P19-0942	1673 Columbia Avenue	Construction of new unmanned fueling facility on vacant lot.	Riverside	CA	0.32			CPC AP 06/24/2021
P19-0951	4631 Tyler Street	Design review for the construction of a 2,000 square foot townhome building for single tenant per unit for a total of 4 units.	Riverside	CA	0.48	2,000	4	
P19-0958 P19-0959	2998 Ivy Street	Design review for self storage facility expansion: related to P19-0926	Riverside	CA	1.73			
P20-0004 P20-0005	6808 Murray Street	MCUP for an existing single-family residence conversion into office with out door storage.	Riverside	CA	0.00			6/17/2020

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P20-0013 P20-0014 P20-0015 P20-0016	19811 Lurin Avenue	Tentative Tract map for 81 lot planned residential development. Variance for setbacks for 81 lot planned residential development.	Riverside	CA	9.61		81	6/10/2021
P20-0018 P20-0019 P20-0020 P20-0021	19331 Lurin Avenue	Tentative tract map for 138 lot planned residential development. Variance for setbacks for 138 lot planned residential development.	Riverside	CA	0.69		138	CPC AP 07/22/2021
P20-0026 P20-0028 P20-0029	9321 Duncan Avenue	Duncan Avenue Condominums. Tentative Tract map for 6 units. Variance for 7.5 side setback requirement.	Riverside	CA	0.48		6	
P20-0035	3861 Third Street	COA for 33 unit affordable housing development- The Aspire.	Riverside	CA			38	CHB AP 9/09/20
P20-0044	6612 Columbus Avenue	New 3,256 S.F office and warehouse building (single tenant) in industrial zone.	Riverside	CA	0.49	3,256		DRC approved 12/02/2020
P20-0086	9174 Indiana Avenue	Proposal by Kye Evans of Brandywine Community Holdings, LLC. to consider a Design Review of project plans for the construction of a multiple-family development consisting of 184 units on two contiguous parcels. The 6.85-acre vacant project site is, located at 9174 Indiana Avenue, situated on the south side of Indiana Avenue between Jackson Street and Gibson Street, in the R-1-7000 - Single-Family Residential Zone, in Ward 5	Riverside	CA	6.85		184	6/30/2020
P20-0107	4088 Mission Inn Avenue	Expansion of existing restaurant	Riverside	CA	0.29	1,006		
P20-0130	6363 Valley Springs Parkway	Addition of fuel dispensers to existing fuel station	Riverside	CA	15.44	2 MPDs		8/12/2020
P20-0158	5840 Mitchell Avenue	Conversion of vacant church to private school	Riverside	CA	6.82	16,610		
P20-0194 P20-0195	18860 Van Buren Boulevard	Proposal by Robert Koch of Discount Tire Company to consider the following entitlements for the construction of a 7,713 square foot minor vehicle repair facility (America's Tire): 1) Conditional Use Permit to permit	Riverside	CA	2.11	7,713		
P20-0203 P20-0281	2775 Gateway Drive	Proposal by Paula Purcell of Canyon Springs Marketplace Corporation to consider the following entitlements for the construction of Phase 1 of the Canyon Springs Healthcare Campus Specific Plan: 1) Design Review of project plans; and 2) Variance to allow combination retaining/screen walls to exceed the maximum height permitted by the Zoning Code.	Riverside	CA	30.17	280,800		8/26/2020
P20-0212 P20-0213	6981 Old 215 Frontage Road	Proposal by Darrell Butler to consider the following entitlements to facilitate an industrial development consisting of three warehouse buildings totaling 118,580 square feet: 1) Design Review of project plans; and 2) Parcel Map to subdivide 7 contiguous parcels, consisting of 8.04 acres, into 4 parcels, dedicate approximately 5,394 square feet of right-of-way along Cottonwood Avenue, and vacate approximately 75,119 square feet of right-of-way along Old 215 Frontage Road.	Riverside	CA	8.04	118,580		DRC AP 07/28/2021
P20-0214 P20-0215 P20-0216 P20-0217	7688 Indiana Avenue	THE PROJECT PROPOSES A SHOWROOM EXPANSION AT THE SOUTHEAST SIDE OF THE BUILDING AND PARKING LOT EXPANSION AT THE SOUTHEAST CORNER OF PROPERTY OBTAINED IN LOT LINE ADJUSTMENT.	Riverside	CA	3.43	12,400		CPC AP 02/18/2021

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P20-0239 P20-0243	4061 Mission Inn Avenue	CONDITIONAL USE PERMIT TO COVERT 4 EXISTING OFFICE BUILDINGS TO 8 MULTI-FAMILY RESIDENTIAL UNITS AND A CERTIFICATE OF APPROPRIATENESS APPLICATION FOR THE DEMOLITION OF AN EXISTING STORAGE BUILDING AND WINDOW REPLACEMENTS. EACH UNIT WILL CONSIST OF 1 BEDROOM AND 1 BATHROOM.	Riverside	CA	0.62		8	CPC AP 10/15/2020
P20-0293 P20-0294	2201 Fairview Avenue	Tract Map and MCUP for 44 for-sale senior condos	Riverside	CA	2.21		44	
P20-0319 P20-0320	5695 Glenhaven Ave	Proposal by Orangecrest Community Church to consider the following entitlements for a phased development of a church: 1) a Conditional Use Permit to permit the development of a 19,905 square-foot worship building, children’s ministry building, youth ministry building, administrative building, nursey building, and a surface parking lot; and 2) a Design review of project plans. The 5.27-acre project site is developed with a vacant recreational tennis/swim club and is located at 5695 Glenhaven Avenue, situated on the northwest corner of Glenhaven Avenue and Alessandro Boulevard, in the R-1-13000 – Single Family Residential Zone, in Ward 3	Riverside	CA	5.27	19,905		CPC AP 07/08/2021
P20-0371	2450 Market Street	Proposal by Gregory Bloomfield to consider the following entitlement to increase the number of residential units at a senior housing development: 1) a Minor Conditional Use Permit to revise a previously approved Conditional Use Permit (P13-0087) to increase the number of senior residential units from 67 to 75. The 1.72 acre site is located at 2450	Riverside	CA	1.72		8	
P20-0372 P20-0373 P20-0374 P20-0376	18233 Van Buren Boulevard	GENERAL PLAN AMENDMENT FROM VLDR - VERY LOW DENSITY RESIDENTIAL TO C - COMMERCIAL, REZONE TO CHANGE THE R-1-1/2 ACRE SP - SINGLE FAMILY RESIDENTIAL AND SPECIFIC PLAN ORANGECREST OVERLAY TO CR-SP-X-15-S-2 - COMMERCIAL RETAIL, SPECIFIC PLAN ORANGECREST, BUILDING STORIES (TWO-STORY MAXIMUM) AND BUILDING SETBACK (15 FEET FROM VAN BUREN BLVD.) OVERLAY ZONES, CONDITIONAL USE PERMIT AND DESIGN REVIEW OF PROJECT PLANS TO ALLOW A 3,713 SF RETAIL BUILDING AND 2,385 SF DRIVE-THRU RESTAURANT.	Riverside	CA	0.87	6,098		CC AP 10/19/2021
P20-0385 P20-0386 P20-0387 P20-0388	18875 Lurin Avenue	Proposal by Nolan Leggio of Lurin Land I, LLC to consider the following entitlements to facilitate the establishment of a 41-unit Planned Residential Development: 1) Tentative Tract Map (TM 37733) to subdivide 9.62 acres into 40 single-family residential lots and lettered lots for common open space, slopes, private streets, and a detention basin; 2) Planned Residential Development Permit for the establishment of detached single-family dwellings, common open space and private streets; 3) Design Review of project plans; and 4) a Variance to allow a reduced perimeter setback.	Riverside	CA	9.62		40	CPC AP 07/22/2021

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P20-0429 P20-0430 P20-0431 P20-0432 P20-0433	6902 Arlington Avenue	Proposal by Steve Berzansky of Steven Walker Communities to consider the following entitlements for the construction of a vehicle fueling station with a 4,750 square foot convenience store, with off-sale of alcohol, and restaurant on three contiguous parcels; 1) General Plan Amendment to amend the land use designation from O - Office to C - Commercial; 2) Zoning Code Amendment to Rezone 0.64 Acres of the site from R-1-7000 - Single Family Residential to CR - Commercial Retail; 3) Conditional Use Permit to permit a vehicle fueling station and off sale of alcohol (Type 20 Beer and Wine); 4) Design Review of project plans; and 5) Public Convenience or Necessity (PCoRN) to allow for an over concentration of off-sale alcohol licenses in Census Tract 315.02.	Riverside	CA	1.35	4,750		
P20-0448 P20-0449 P20-0450	5301 La Sierra Avenue	Proposal by Shawn Shavalian to consider the following entitlements for the construction of a 2,825 square foot restaurant building and a 2,750 square foot retail building: 1) Minor Conditional Use Permit for the on-sale of alcoholic beverages; 2) Design Review of project plans; and 3) Variance for the on-sale of alcoholic beverages within 100 feet of a residentially zoned property.	Riverside	CA	0.65	5,575		
P20-0471 P20-0472	3001 Iowa Avenue	Proposal by Seritage KMT Finance, LLC to consider the following entitlements for a mixed-use development consisting of 299 multi-family residential units and 1,385 square-feet of retail area: 1) a Site Plan Review of project plans; and 2) a Parcel Map to subdivide a 13.2-acre parcel into two parcels. The project site is currently developed with a 99,832 square foot commercial building and is located at 3001 Iowa Avenue, situated on the west side of Iowa Avenue, between Massachusetts Avenue and Blaine Street, in the MU-V - Mixed-Use Village Zone, in Ward 1.	Riverside	CA	13.20		299	
P20-0473 P20-0474	10359 Gould Street	Proposal by Sidney Mehrdady of SBI Group to consider the following entitlements for the construction of a 14,424 square foot, 24-unit senior apartment complex: 1) Minor Conditional Use Permit to permit a Senior Apartment complex; and 2) Design Review of project plans. The 0.85-acre vacant project site is located at 10359 Gould Street, situated north of Gould Street between Jones Avenue and Tyler Street, in the R-1-7000 - Single Family Residential Zone, in Ward 7.	Riverside	CA	0.85	14,424	24	
P20-0476 P20-0477	3745 Van Buren Boulevard	Proposal by Clarence Vong of One Design Lab to consider the following entitlements to facilitate the construction of a 10,629 square foot vehicle wash facility: 1) Conditional Use Permit to permit a vehicle wash facility; and 2) Design Review of project plans. The project site consists of two contiguous parcels partially developed with a residence, totaling 1.15 acres, located at 3745 and 3729 Van Buren Boulevard, situated on the east side of Van Buren Boulevard between Magnolia Avenue and Andrew Street in the CR-SP - Commercial Retail and Specific Plan (Magnolia Avenue) Overlay Zones, in Ward 5.	Riverside	CA	1.15	10,629		9/21/2021

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
P20-0482 P20-0483	1211 Research Park Drive	Proposal by Daniel Baek of Royal Refrigeration to consider the following entitlements for the construction of a new, 29,126 square foot warehouse: 1) Design Review of project plans; and 2) Variance to allow fewer parking spaces than required by the Zoning Code. The 1.44 acre vacant project site is located at 1211 Research Park Drive, situated on the southwest corner of Research Park Drive and Technology Court, in the BMP-SP - Business and Manufacturing Park and Specific Plan (Hunter Business Park) Overlay Zones, in Ward 1.	Riverside	CA	1.44	29,126		
P20-0487	1576 Palmyrita Avenue	Proposal by Lord Constructors Inc. to consider a Design Review of project plans to construct a 27,860 square-foot, phased warehouse development. The 2.69-acre project site is currently developed with a vehicle storage yard and office building. The project site is located at 1576 Palmyrita Avenue, situated on the south side of Palmyrita Avenue, between Ardmore Street and Iowa Avenue, in the I-SP – General Industrial and Specific Plan (Hunter Business Park) Overlay Zones, in Ward 1.	Riverside	CA	2.69	27,860		DRC AP 04/07/2021
P20-0489 P20-0490 P20-0491 P20-0492 P20-0493	9261 Duncan Avenue	Proposal by Russell Crha to consider the following entitlements to subdivide a 1.0-acre parcel into 4 parcels ranging in size from 8,889 square feet to 12,924 square feet: 1) Tentative Parcel Map to subdivide one parcel into 4 parcels; 2) Variance to allow a reduced side yard setback for an existing residence; 3) Variance to allow a reduced lot width of 59 feet 6 inches, where the Zoning Code requires 60-feet wide; 4) Variance to allow a corridor lot; and 5) Variance to allow a corridor of 10-feet in width, where the Zoning Code requires a minimum of 20-feet. The project site is developed with an existing single-family residence, located at 9261 Duncan Avenue, situated on the north side of Duncan Avenue between Turnbull Road and Pershing Drive, in the R-1-7000 - Single Family Residential Zone, in Ward 5.	Riverside	CA	1.00		4	
PR-2020-000105	3512 Fourteenth Street	Proposal by Jennifer Dorgan of Gresham Savage Nolan & Tilden, PC to consider a Design Review of plans to construct a 48,000-square-foot addition to the existing Press Enterprise building to expand existing operations. The 6.6-acre project site consists of three contiguous parcels and is currently developed with a 140,000-square-foot building that is utilized for newspaper and commercial printing operations. The property is located at 3512 Fourteenth Street, situated on the south side of Fourteenth Street between Orange Grove Avenue and Olivewood Avenue, in the DSP-PP0-SP – Downtown Specific Plan – Prospect Place Office District Zone, in Ward 1.	Riverside	CA	6.60	48,000		DRC AP 04/07/2021
PR-2020-000106	2885 Canyon Springs Parkway	Proposal by Todd Williams of Chick-Fil-A, Inc. to consider the following entitlements to facilitate the expansion of an existing Chick-Fil-A drive-thru restaurant: 1) Minor Conditional Use Permit to amend an existing CUP (Planning Case CU-052-023) allowing for a building expansion; 2) Design Review of project plans; and 3) Variance to allow for a reduced drive-thru lane width, where the Zoning Code requires a minimum of 12 feet. The project site consists of 0.70 acres developed with an existing Chick-Fil-A drive-thru restaurant. The project site is located at 2885 Canyon Springs Parkway, situated on the south side of Canyon Springs Parkway and west of Day Street, in the CR-SP – Commercial Retail and Specific Plan (Canyon Springs) Overlay Zones, in Ward 2.	Riverside	CA	0.70	3,675		DRC AP 07/06/2021

Case Number	Location	Project Description	City	State	Acres	Buildings Total Square Feet	Dwelling Units	Approval Date
PR-2020-000144	4700 Canyon Crest Drive	Proposal by Christopher Kassaseya of St. Andrew Orthodox Christian Church to consider the following entitlements: 1) a Modification of a previously approved Conditional Use Permit (Planning Case No. P08-0046); to permit the addition of a 5,985 square foot church hall, a 3,622 square foot administration building, and to demolish and reconstruct a portion of the west parking lot; and 2) Design Review of project plans. The 4.6-acre project site is located at 4700 Canyon Crest Drive, situated on the east side of Canyon Crest Drive between University Drive and Navajo Drive, in the R-1-8500-RP – Single-Family Residential and Residential Protection Overlay Zones, in Ward 2.	Riverside	CA	4.60	9,607		CPC AP 04/29/2021
PR-2020-000190	8390 Janet Drive	Proposal by Tony Vu of Master Construction to consider the following entitlements to construct eleven two-story condominium homes: 1) a Tentative Tract Map to subdivide the parcel into 11 condominium lots; and 2) a Design Review of project plans. The vacant 0.58-acre project site is located at 8390 Janet Avenue and is situated on the south side of Janet Avenue, west of the intersection of Janet Avenue and Picker Street, in the R-3-1500 – Multi-Family Residential Zone, in Ward 6.	Riverside	CA	0.58		11	
PR-2020-000241	3521 Main Street	Proposal by Marco McGuire of McGuire Restaurants Group, Inc. to consider a Minor Conditional Use Permit to permit a 2,050 square-foot banquet hall. The project site is located at 3563 and 3565 Main Street, situated on the west side of Main Street, between Fifth and Sixth Streets, in the DSP-RC-CR – Downtown Specific Plan – Raincross District and Cultural Resources (Mission Inn Historic District) Overlay Zones, in Ward 1.	Riverside	CA		2,050		

Appendix I

Assembly Bill 52 Consultation Efforts

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 9:09 AM
To: THPO Consulting
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_ACBCI_4-13-22.pdf

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

UCR received your request for formal notification of proposed projects within the Agua Caliente Band of Cahuilla Indians Traditional Use Area. The attached letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang
Campus Environmental Planner
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>



Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

April 13, 2022

Patricia Garcia, Director of Tribal Historic Preservation Office
Agua Caliente Band of Cahuilla Indians
5401 Dinah Shore Drive
Palm Springs, California 92264

ACBCI-THPO@aguacaliente.net

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Ms. Garcia:

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 6 acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of proposed projects within the Agua Caliente Band of Cahuilla Indians Traditional Use Area. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. A request for the Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are pending response back from the NAHC. If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the

proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

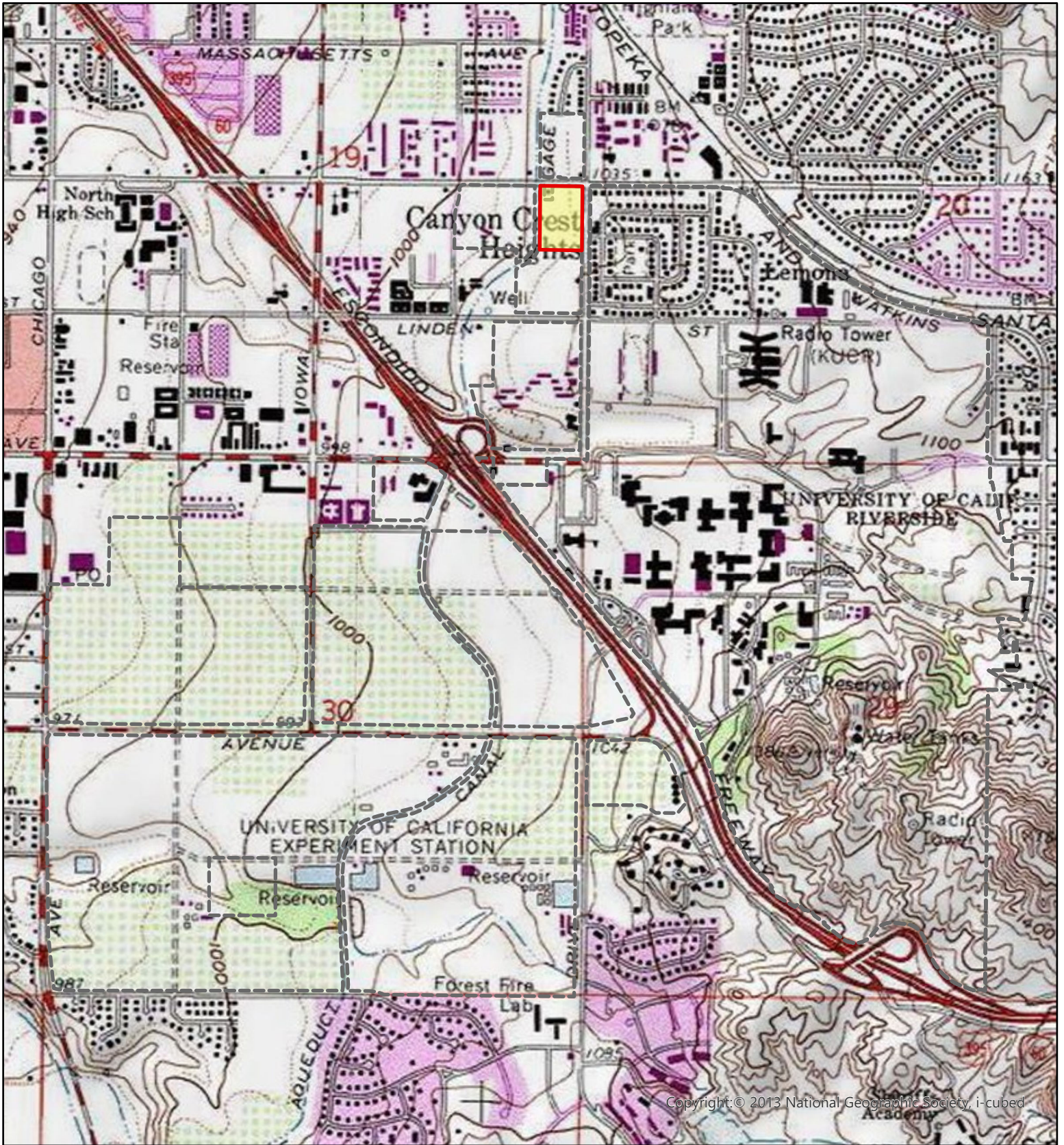
Stephanie Tang
Campus Environmental Planner
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
Campus Environmental Planner

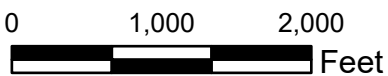


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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location

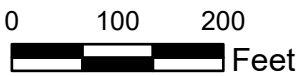


EXHIBIT 2



 Project Site

 UCR Campus Boundary



UCR Campus
RUSD STEM Education Center Project
Aerial Map



Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

Updated: May 1, 2023

Original Date: April 13, 2022

Patricia Garcia, Director of Tribal Historic Preservation Office
Agua Caliente Band of Cahuilla Indians
5401 Dinah Shore Drive
Palm Springs, California 92264

Transmitted electronically:

ACBCI-THPO@aguacaliente.net

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Ms. Garcia:

Please note that updates to the AB 52 notice is provided below in ~~strikeout text~~ and underline text. Additionally, Exhibit 2 has been updated to depict the electrical feeder line upgrade alignment, associated site improvements, existing cell towers, and T-Mobile Cell Tower Relocation Area.

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 7 acres ~~6 acres~~ and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of

proposed projects within the Agua Caliente Band of Cahuilla Indians Traditional Use Area. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. A request for the Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are negative. ~~pending response back from the NAHC~~. If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

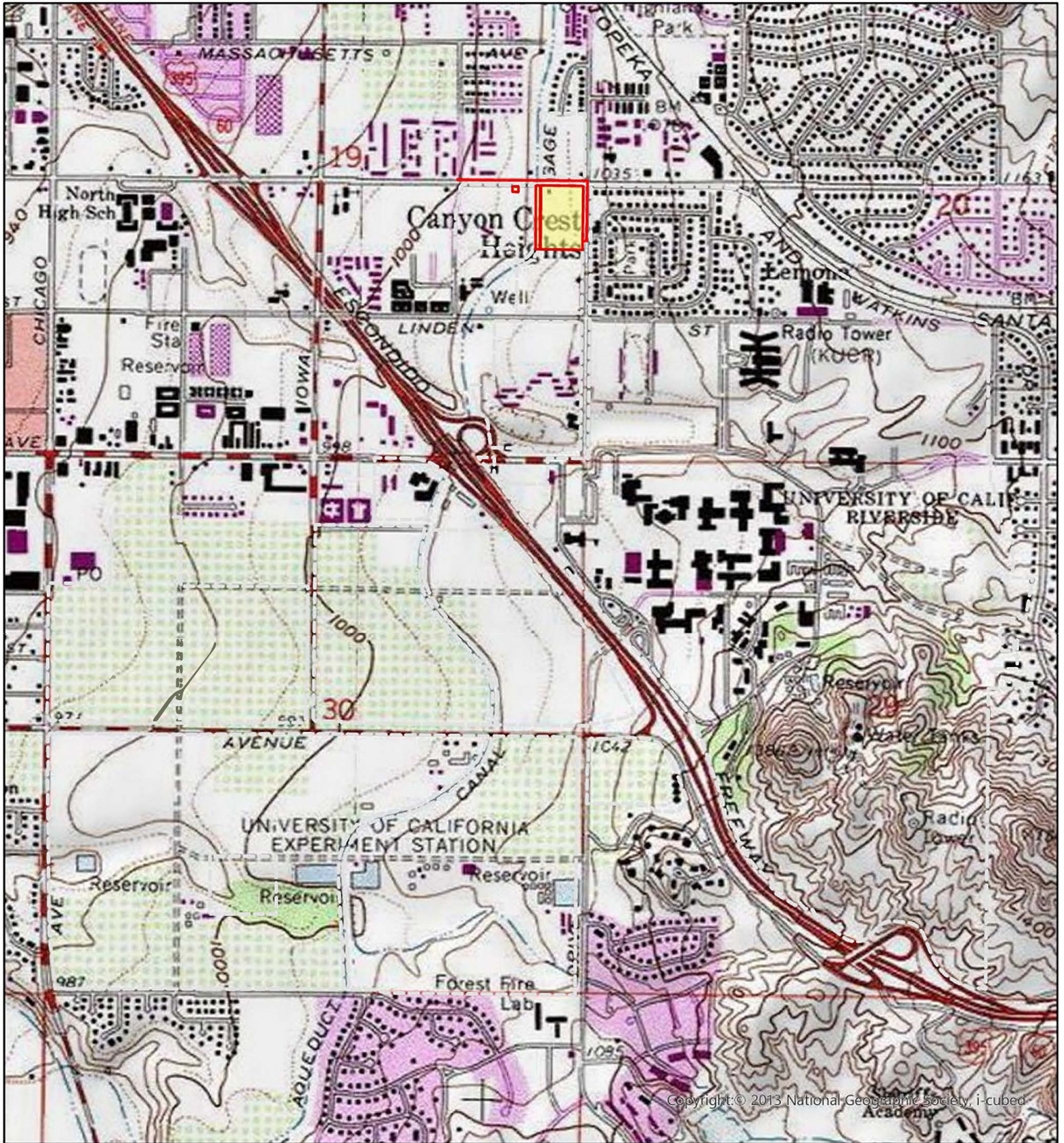
Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning

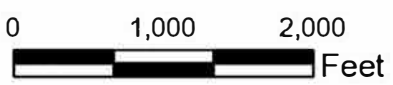


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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location



 Project Site
 UCR Campus Boundary

 Existing Cell Sites

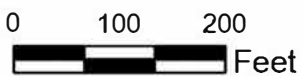


EXHIBIT 2

UCR Campus
 RUSD STEM Education Center Project
 Aerial Map



02-032-2022-001

May 13, 2022

[VIA EMAIL TO:stephanie.tang@ucr.edu]
University of California, Riverside
Ms. Stephanie Tang
1223 University Avenue, Suite 240
Riverside, CA 92507

Re: AB52 STEM Ed Center

Dear Ms. Stephanie Tang,

The Agua Caliente Band of Cahuilla Indians (ACBCI) appreciates your efforts to include the Tribal Historic Preservation Office (THPO) in the STEM Ed Center project. The project area is not located within the boundaries of the ACBCI Reservation. However, it is within the Tribe's Traditional Use Area. For this reason, the ACBCI THPO requests the following:

*A copy of the records search with associated survey reports and site records from the information center.

*Copies of any cultural resource documentation (report and site records) generated in connection with this project.

Again, the Agua Caliente appreciates your interest in our cultural heritage. If you have questions or require additional information, please call me at (760)883-1327. You may also email me at ACBCI-THPO@aguacaliente.net.

Cordially,

Arysa Gonzalez Romero
Cultural Resources Analyst
Tribal Historic Preservation Office
AGUA CALIENTE BAND
OF CAHUILLA INDIANS

From: Stephanie Tang
Sent: Tuesday, August 16, 2022 11:14 AM
To: Gonzalez Romero, Arysa (TRBL)
Cc: THPO Consulting
Subject: RE: AB52 UCR STEM Ed Center
Attachments: SLF No RUSD STEM Ed Center Project 4.19.2022.pdf

Hi Arysa,

Thank you for your response to UCR's STEM's AB 52 notice. The NAHC SLF PDF is attached for your reference. Due to the number of files and file size, please click on the following link for the https://o365ucr-my.sharepoint.com/:f:/g/personal/stephant_ucr_edu/EuMnHKkLaChLj3bQekNpx_oB2n-BBRdo1Qxhpc0ruMAYmg?e=akRntK.

The project is still in its preliminary planning stage so no grading plans or geotechnical report has been prepared.

Please review the provided files and let me know if the tribe wishes to consult on this project.

Thank you.

Respectfully,

Stephanie Tang
Campus Environmental Planner
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

-----Original Message-----

From: Gonzalez Romero, Arysa (TRBL) <aromero@aguacaliente.net>
Sent: Friday, May 13, 2022 2:24 PM
To: Stephanie Tang <stephanie.tang@ucr.edu>
Subject: AB52 STEM Ed Center

If you have any questions about the attached letter please feel free to contact me.

Thank you,

Arysa Gonzalez Romero, M.S., RPA.
Cultural Resources Analyst
Agua Caliente Band of Cahuilla Indians
Tribal Historic Preservation Office
Phone: (760)-831-2484
Email: aromero@aguacaliente.net

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 9:28 AM
To: CHAIRMAN@CAHUILLA.NET; BobbyRay Esparza; anthonymad2002@gmail.com
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_Cahuilla_4-13-22.pdf

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

UCR received your request for formal notification of proposed projects within the Cahuilla Band of Indians Traditional Use Area. The attached letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang
Campus Environmental Planner
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>



Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

April 13, 2022

Daniel Salgado, Chairperson
Cahuilla Band of Indians
52701 U.S. Highway 371
Anza, CA 92539

chairman@cahuilla.net; Besparza@cahuilla.net; anthonymad2002@gmail.com

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Mr. Salgado:

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 6 acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

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Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are

pending response back from the NAHC. If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

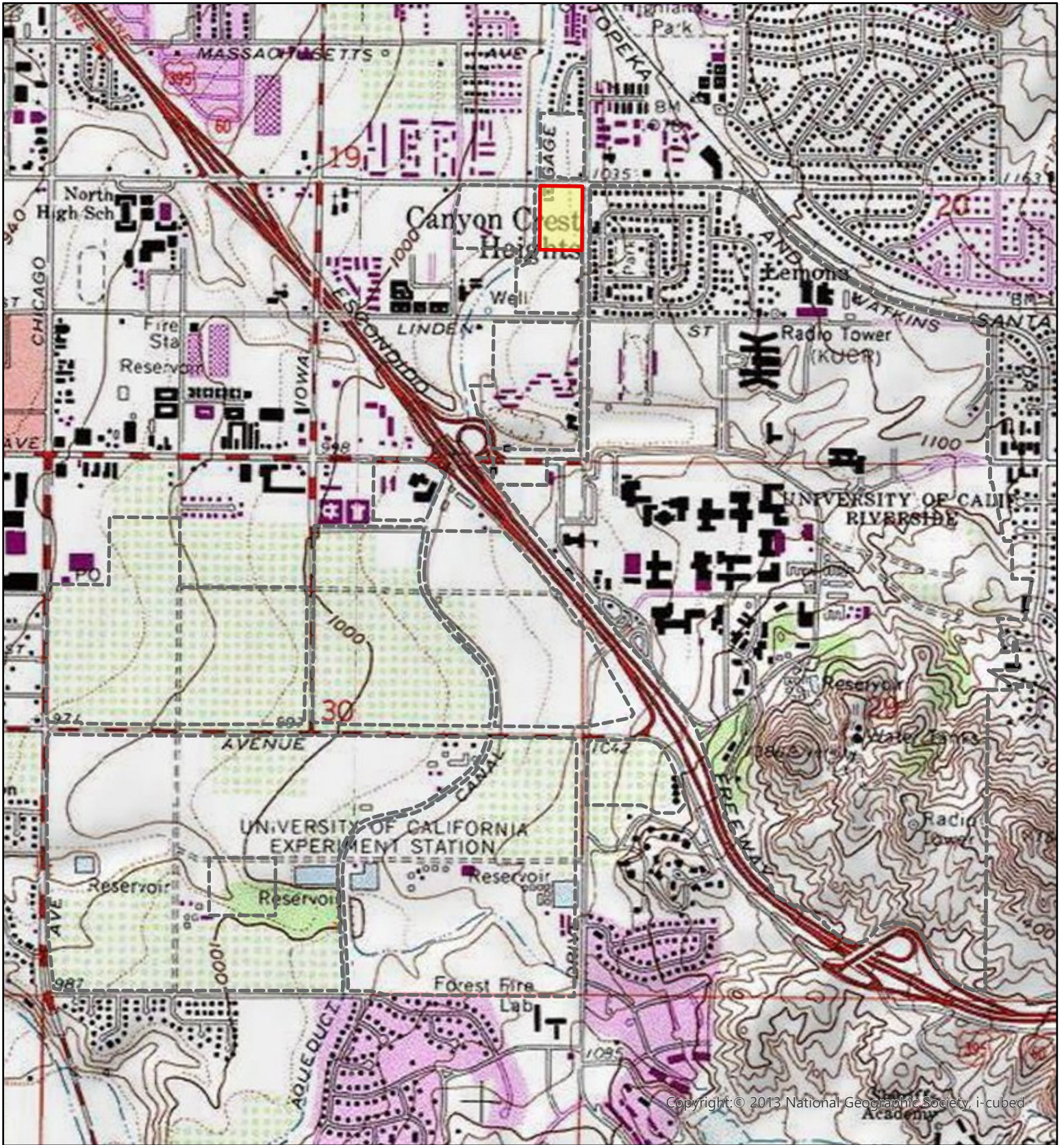
Stephanie Tang
Campus Environmental Planner
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

A handwritten signature in cursive script that reads "Stephanie Tang".

Stephanie Tang
Campus Environmental Planner



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EXHIBIT 1



 Project Site

 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location

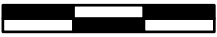


EXHIBIT 2



 Project Site

 UCR Campus Boundary

0 100 200
 Feet

UCR Campus
RUSD STEM Education Center Project
Aerial Map

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 9:28 AM
To: CHAIRMAN@CAHUILLA.NET; BobbyRay Esparza; anthonymad2002@gmail.com
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_Cahuilla_4-13-22.pdf

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

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Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang
Campus Environmental Planner
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>



Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

Updated: May 1, 2023
Original Date: April 13, 2022

Daniel Salgado, Chairperson
Cahuilla Band of Indians
52701 U.S. Highway 371
Anza, CA 92539

Transmitted electronically:

chairman@cahuilla.net; Besparza@cahuilla.net; anthonymad2002@gmail.com

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Mr. Salgado:

Please note that updates to the AB 52 notice is provided below in ~~strikeout text~~ and underline text. Additionally, Exhibit 2 has been updated to depict the electrical feeder line upgrade alignment, associated site improvements, existing cell towers, and T-Mobile Cell Tower Relocation Area.

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 7 acres ~~6 acres~~ and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

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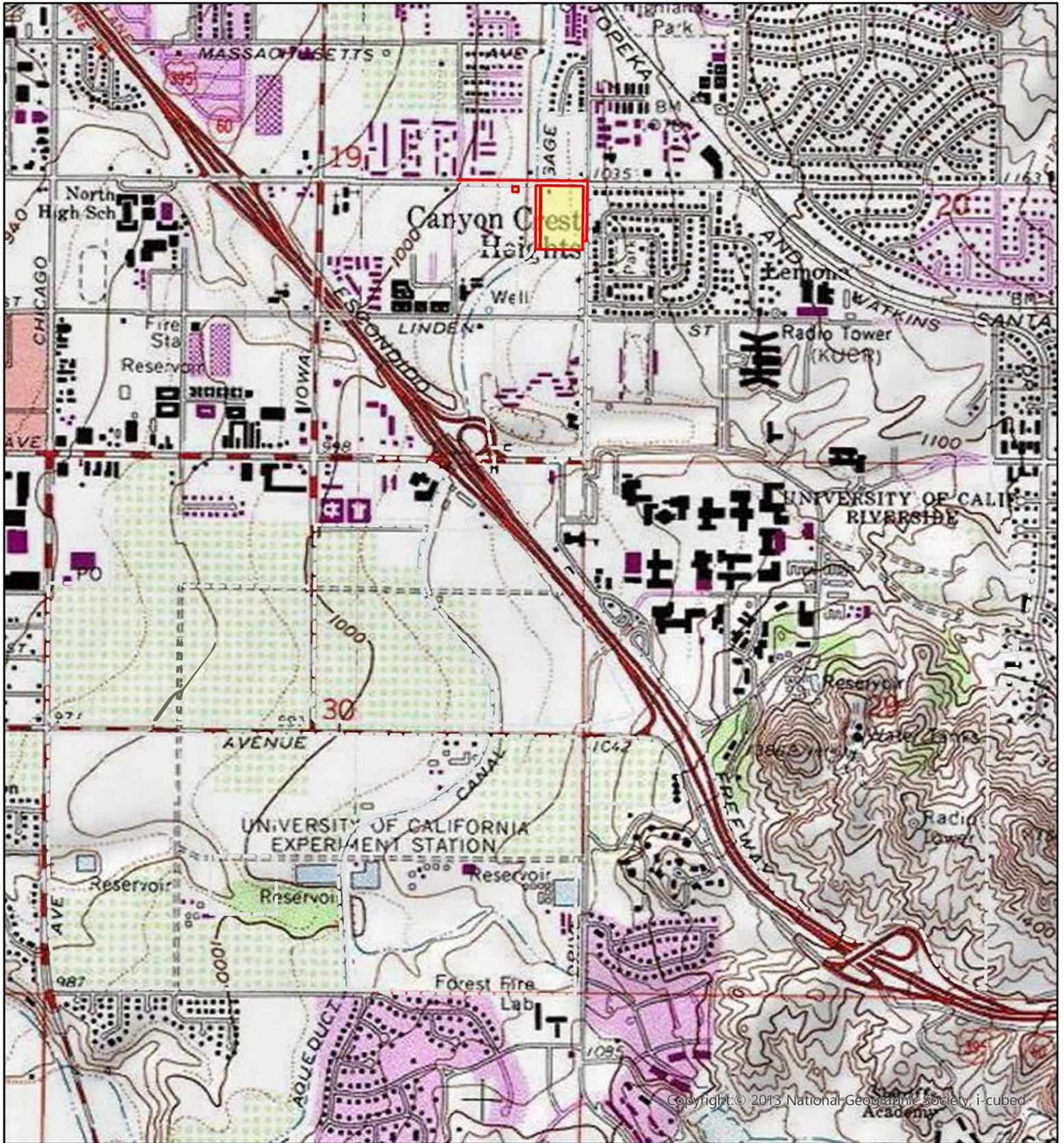
Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning

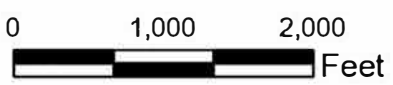


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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location

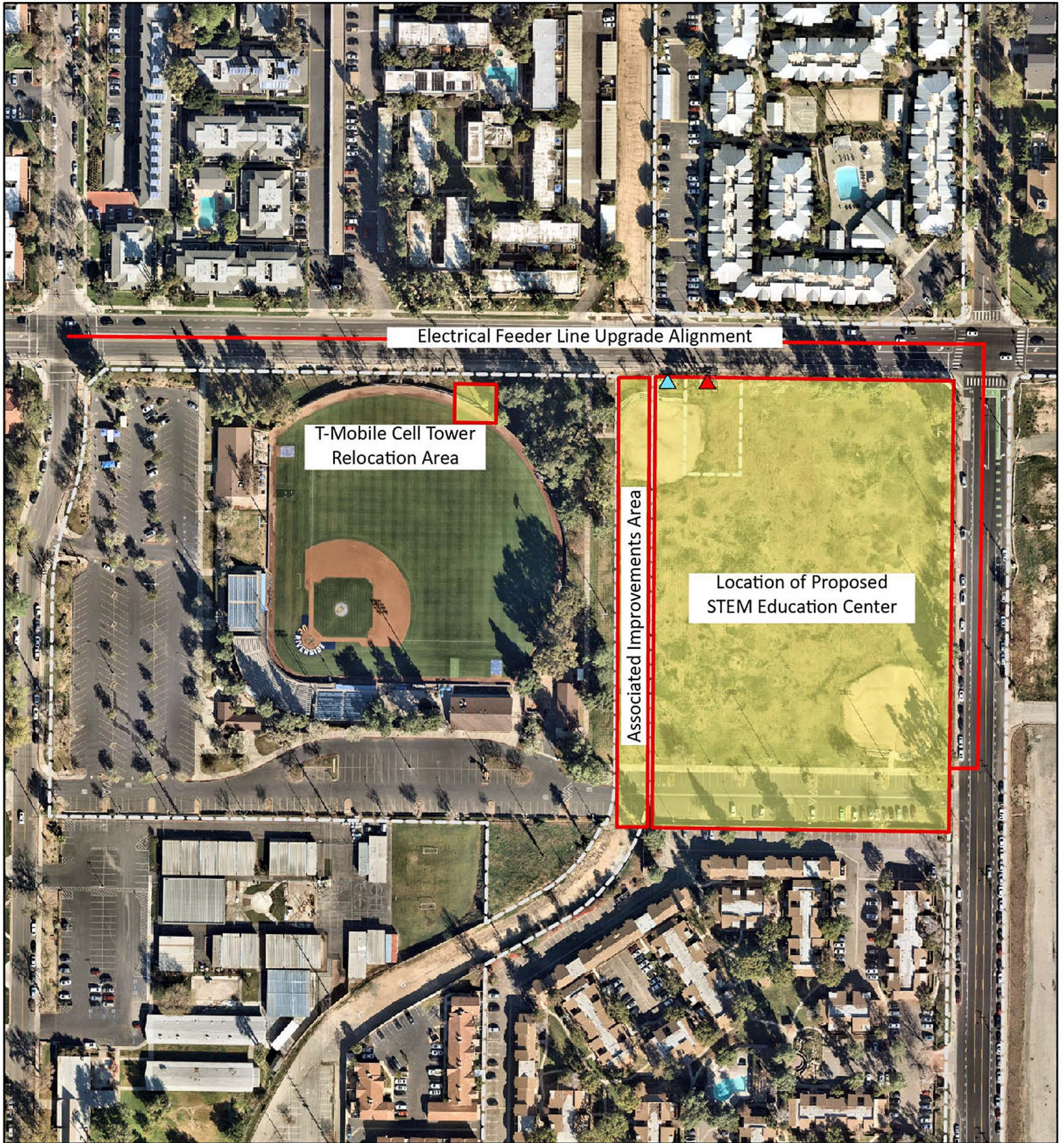
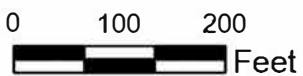


EXHIBIT 2



 Project Site
 UCR Campus Boundary

 Existing Cell Sites



UCR Campus
 RUSD STEM Education Center Project
 Aerial Map

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 10:08 AM
To: gabrielenoindians@yahoo.com
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_Gabrieleno_4-13-22.pdf

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Since RUSD received your request for formal notification of proposed RUSD projects, this letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation.

Respectfully,

Stephanie Tang
Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

April 13, 2022

Andrew Salas
Chairman
Gabrieleño Band of Mission Indians – Kizh Nation
P.O. Box 393
Covina, CA 91723

gabrielenoindians@yahoo.com

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Mr. Salas:

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 6 acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. Since RUSD received your request for formal notification of proposed RUSD projects, this letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are pending response back from the NAHC. If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

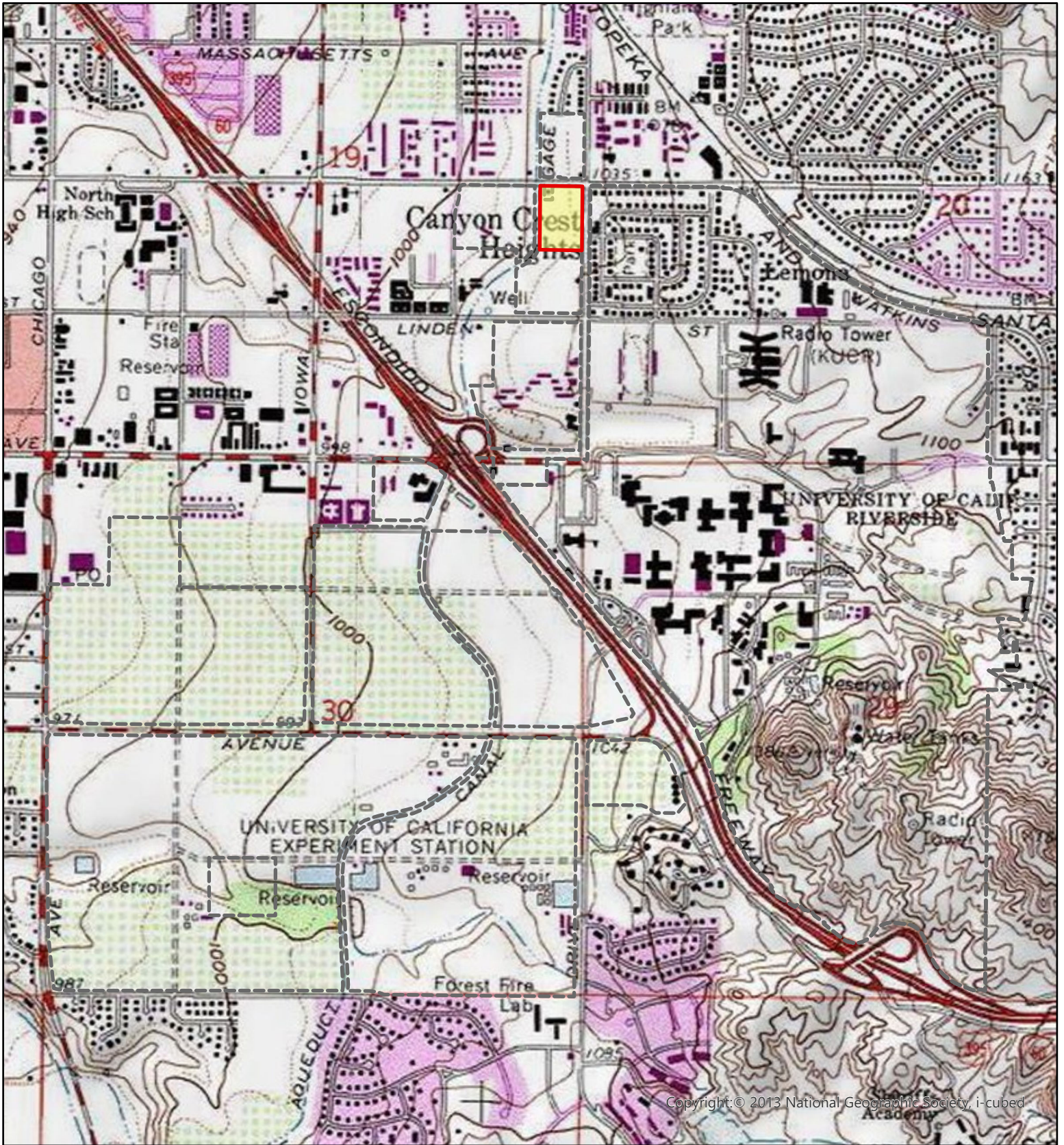
Stephanie Tang
Campus Environmental Planner
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

A handwritten signature in cursive script that reads "Stephanie Tang".

Stephanie Tang
Campus Environmental Planner



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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location



Blaine Street

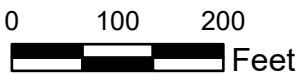
Canyon Crest Drive

EXHIBIT 2



Project Site

UCR Campus Boundary



UCR Campus
RUSD STEM Education Center Project
Aerial Map

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 10:11 AM
To: admin@gabrielenoindians.org
Subject: FW: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_Gabrieleno_4-13-22.pdf; Auto Response: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning,

I received an email notifying me to send AB 52 notices to this email address. Please see email below and attached AB 52 notice for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus.

Respectfully,

Stephanie Tang
Campus Environmental Planner
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 10:08 AM
To: gabrielenoindians@yahoo.com
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Since RUSD received your request for formal notification of proposed RUSD projects, this letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation.

Respectfully,

Stephanie Tang

Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PLANNING, DESIGN & CONSTRUCTION

1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507

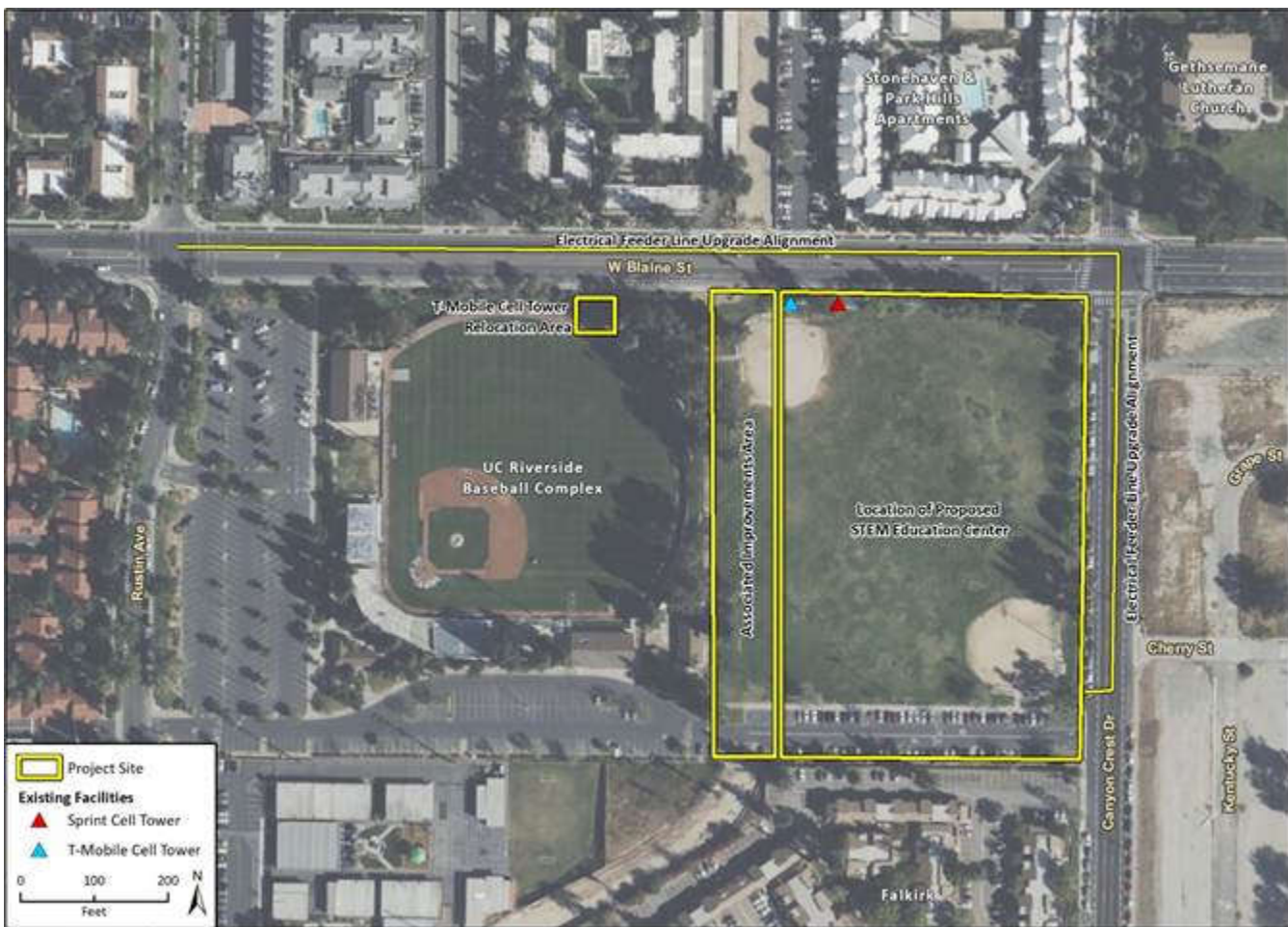
951.827.1484 | <https://cpp.ucr.edu/>

From: Stephanie Tang
Sent: Monday, May 1, 2023 11:51 AM
To: admin@gabrielenoindians.org
Subject: RUSD STEM Center at UCR - AB 52 Consultation
Attachments: STEM AB52_NoticeLtr_Gabrieleno_5-1-23.pdf

Good morning Mr. Salas,

It's been a while and hope everything has been going well on your end. Since the Tribe concluded AB 52 consultation based on our October 2022 call, I wanted to provide an AB 52 notice update re: the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. The purpose of this email is to provide an updated AB 52 notice (attached) and graphic below that shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice).

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.**



Imagery provided by Microsoft Bing and its licensors. © 2023.

Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PLANNING, DESIGN & CONSTRUCTION

1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507

951.827.1484 | <https://cpp.ucr.edu/>

 Before printing, think about the environment.



Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

Updated: May 1, 2023

Original Date: April 13, 2022

Andrew Salas

Chairman

Gabrieleño Band of Mission Indians – Kizh Nation

P.O. Box 393

Covina, CA 91723

Transmitted electronically:

admin@gabrielenoindians.org

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Mr. Salas:

Please note that updates to the AB 52 notice is provided below in ~~strikeout text~~ and underline text. Additionally, Exhibit 2 has been updated to depict the electrical feeder line upgrade alignment, associated site improvements, existing cell towers, and T-Mobile Cell Tower Relocation Area.

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 7 acres ~~6 acres~~ and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

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Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. Since RUSD received your request for formal

notification of proposed RUSD projects, this letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are ~~negative. pending response back from the NAHC.~~ If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

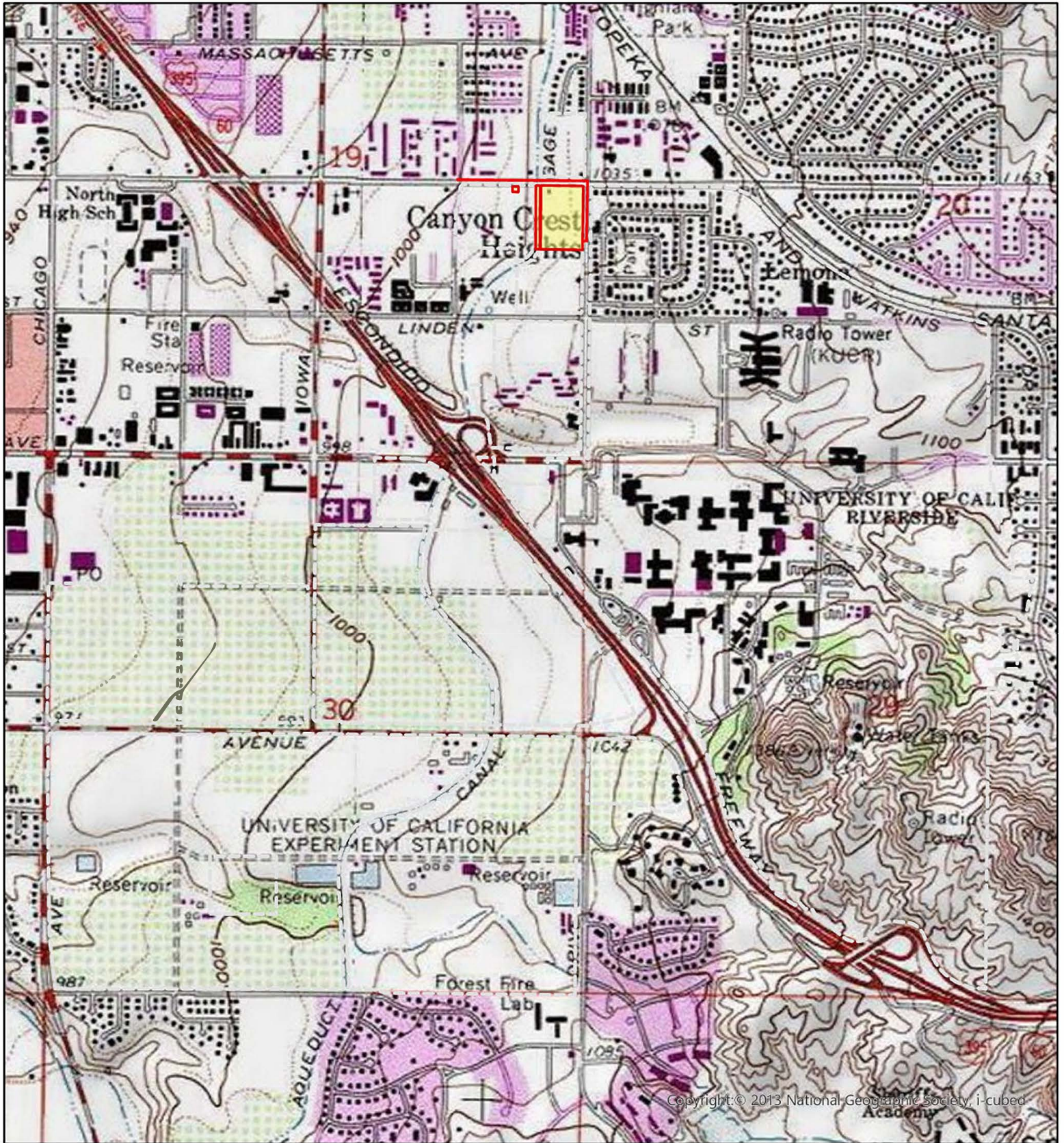
Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning

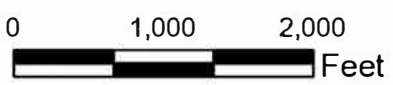


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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location

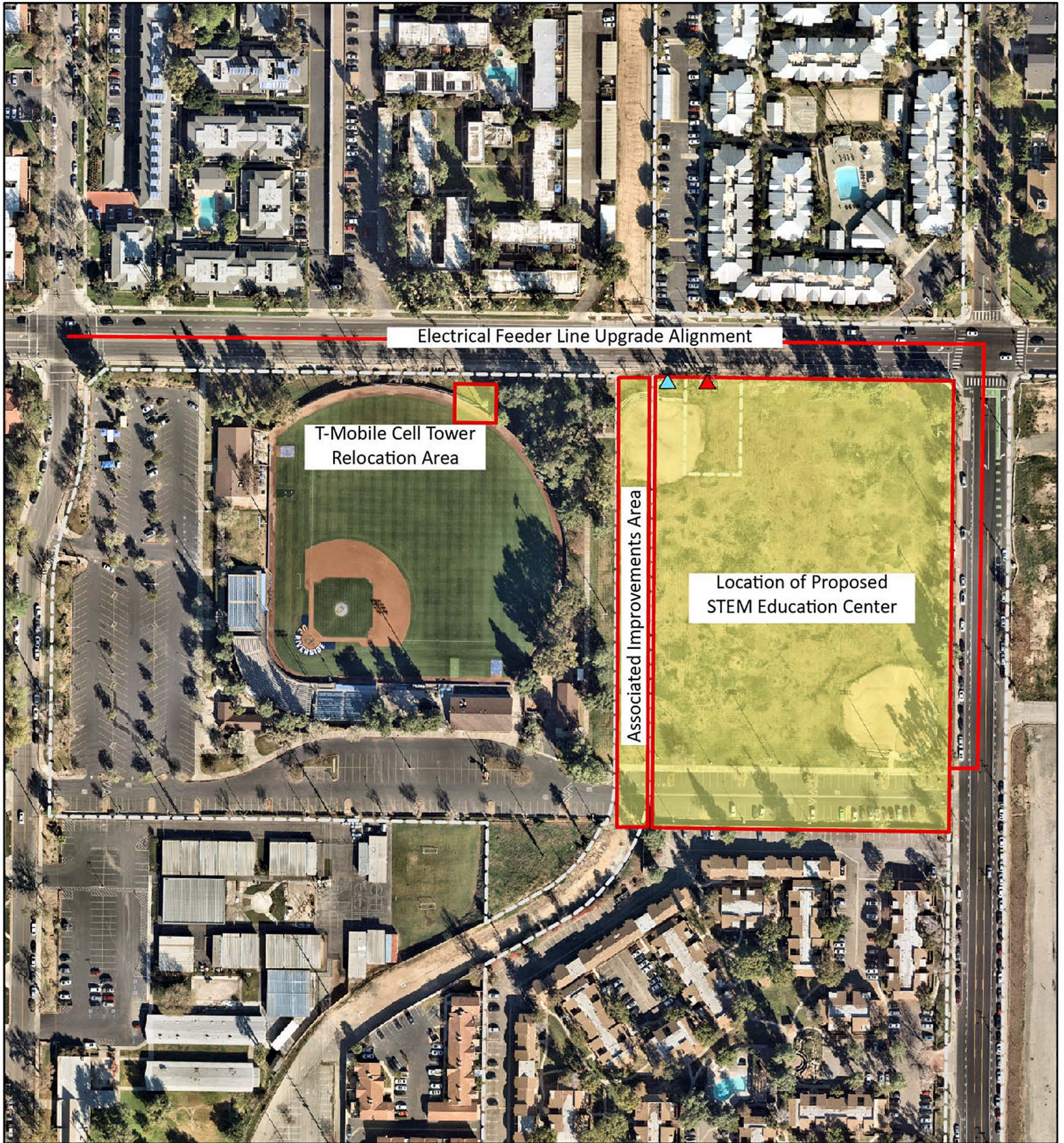
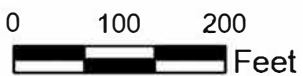


EXHIBIT 2



 Project Site
 UCR Campus Boundary

 Existing Cell Sites



UCR Campus
 RUSD STEM Education Center Project
 Aerial Map

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 10:26 AM
To: eozdil@pechanga-nsn.gov; jochoa@pechanga-nsn.gov; afernandez@pechanga-nsn.gov; tmendoza@pechanga-nsn.gov
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_Pechanga_4-13-22.pdf

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

UCR received your request for formal notification of proposed campus projects. The attached letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang
Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>



Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

April 13, 2022

Ebru Ozdil
Pechanga Band of Luiseño Indians
P.O. Box 1477
Temecula, CA 92593

cozdil@pechanga-nsn.gov; jochoa@pechanga-nsn.gov; afernandez@pechanga-nsn.gov;
tmendoza@pechanga-nsn.gov

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Ms. Ozdil:

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 6 acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of proposed campus projects. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are pending response back from the NAHC. If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

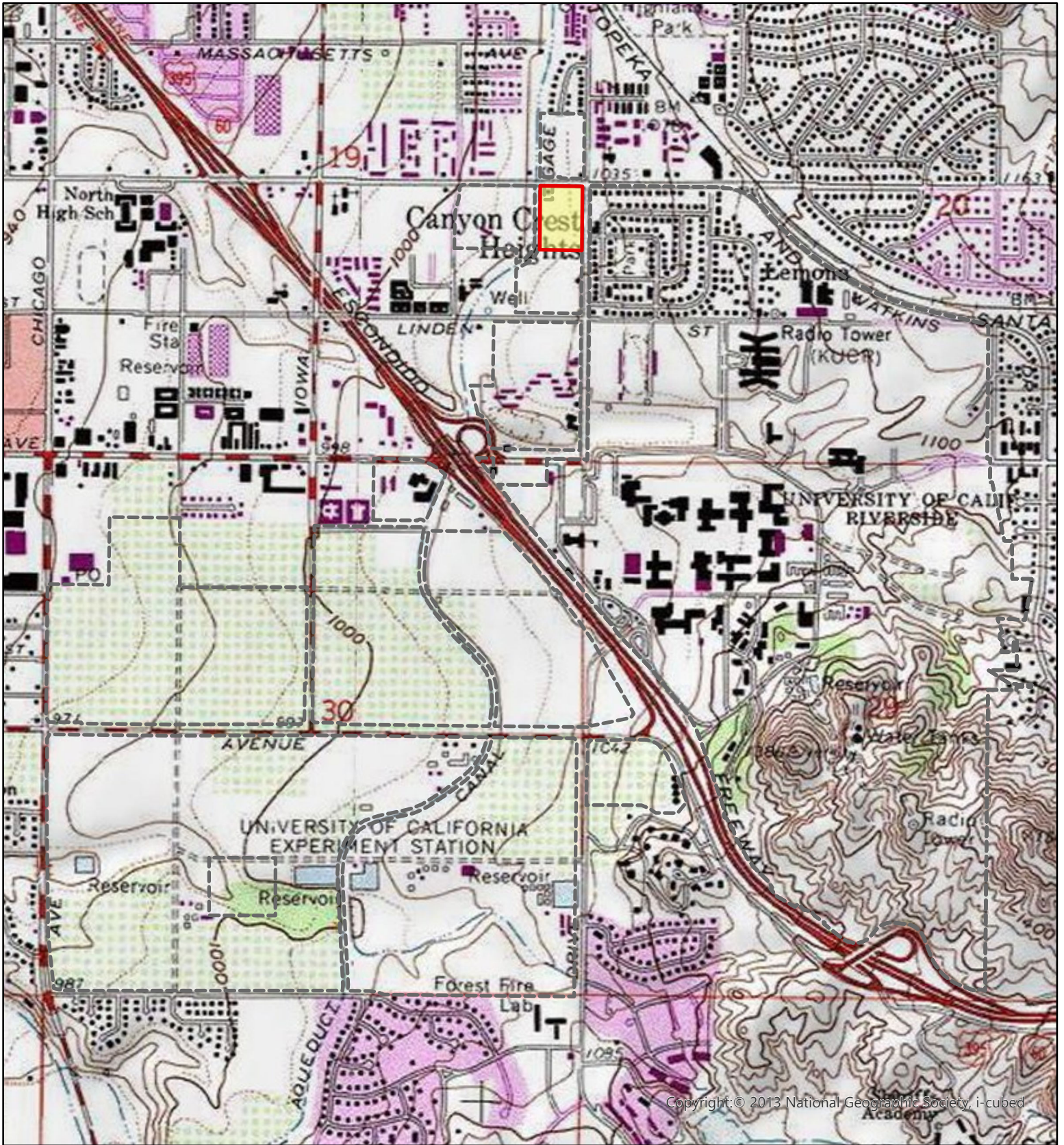
Stephanie Tang
Campus Environmental Planner
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

A handwritten signature in blue ink that reads "Stephanie Tang". The signature is written in a cursive, flowing style.

Stephanie Tang
Campus Environmental Planner

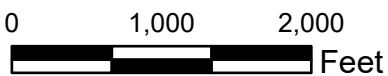


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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location



Blaine Street

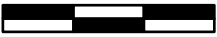
Canyon Crest Drive

EXHIBIT 2



 Project Site

 UCR Campus Boundary

0 100 200
 Feet

UCR Campus
RUSD STEM Education Center Project
Aerial Map

From: [Stephanie Tang](#)
To: [Juan Ochoa](#); [Ebru Ozdil](#)
Cc: [Andrea Fernandez](#); [Ebru Ozdil](#); [Molly Earp](#)
Subject: RE: Pechanga Tribe AB52 Comments on RUSD STEM Ed. Center Project
Date: Tuesday, August 16, 2022 10:51:00 AM
Attachments: [SLF No RUSD STEM Ed Center Project 4.19.2022.pdf](#)

Hi Juan/Ebru,

Thank you for your response to UCR's STEM's AB 52 notice. An EIR is currently being prepared for the STEM project. The tribe will be included in the distribution list and will be notified prior to the Regent's hearing. At this time, the NAHC SLF PDF is attached for your reference. Due to the number of files and file size, please click on the following link for the [Confidential - CHRIS Records Search](#).

The project is still in its preliminary planning stage so no grading plans or geotechnical report has been prepared.

Please review the provided files and let me know when the tribe wishes to consult on this project. If you could provide a few dates/timeframes of the tribe's availability.

Thank you.

Respectfully,

Stephanie Tang

Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PLANNING, DESIGN & CONSTRUCTION

1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507

951.827.1484 | <https://cpp.ucr.edu/>

From: Juan Ochoa <jochoa@pechanga-nsn.gov>
Sent: Friday, May 13, 2022 11:48 AM
To: Stephanie Tang <stephanie.tang@ucr.edu>
Cc: Andrea Fernandez <afernandez@pechanga-nsn.gov>; Ebru Ozdil <eozdil@pechanga-nsn.gov>; Molly Earp <mearp@pechanga-nsn.gov>
Subject: Pechanga Tribe AB52 Comments on RUSD STEM Ed. Center Project

Dear Stephanie Tang,

This letter is written on behalf of the Pechanga Band of Indians (hereinafter, "the Tribe") a federally recognized Indian tribe and sovereign government in response to the AB 52 notice provided by the University of California, Riverside (UCR).

This email serves as the Tribe's formal request to begin consultation under AB 52 for this Project. Per AB 52, we intend to assist UCR in determining the type of environmental document that should be prepared for this Project (i.e. EIR, MND, ND); with identifying

potential tribal cultural resources (TCRs); determining whether potential substantial adverse effects will occur to them; and to develop appropriate preservation, avoidance and/or mitigation measures, as appropriate. CEQA, as amended by AB 52, requires the UCR to avoid damaging effects to the significance of a tribal cultural resource. As such, the preferred TCR mitigation is complete avoidance and the Tribe requests that all efforts to preserve sensitive TCRs be made as early in the development process as possible.

Please add the Tribe to your distribution list(s) for public notices and circulation of all documents, including environmental review documents, archaeological reports, development plans, conceptual grading plans (if available), and all other applicable documents pertaining to this Project. The Tribe further requests to be directly notified of all public hearings and scheduled approvals concerning this Project, and that these comments be incorporated into the record of approval for this Project.

The Pechanga Tribe asserts that the Undertaking is a part of ‘*Atáaxum* (Luiseño) territory, and therefore the Tribe’s aboriginal territory as evidenced by the existence of cultural features associated with religious practice and an extensive artifact record in the vicinity of the Project. This culturally sensitive area is affiliated with the Pechanga Band of Luiseño Indians because of the Tribe's cultural ties to this area as well as our extensive history with the UCR and other projects within the area.

As you know, the AB 52 consultation process is ongoing and continues until appropriate mitigation has been agreed upon for the TCRs that may be impacted by the Project. As such, under both AB 52 and CEQA, we look forward to working closely with the UCR on ensuring that a full, comprehensive environmental review of the Project's impacts is completed.

In addition to those rights granted to the Tribe under AB 52, the Tribe reserves the right to fully participate in the environmental review process, as well as to provide further comment on the Project's impacts to cultural resources and potential mitigation for such impacts.

The Pechanga Tribe looks forward to working together with the University of California, Riverside in protecting the invaluable Pechanga cultural resources found in the Project area. The formal contact person for this Project will be Ebru Ozdil. Please contact her at 951-770-6313 or at eozdil@pechanga-nsn.gov within 30 days of receiving this consultation request so that we can begin the consultation process. Thank you.

Juan Ochoa, MLIS
Assistant Tribal Historic Preservation Officer
Pechanga Cultural Resources Department
P.O. Box 2183
Temecula, CA 92593
Office:(951)-770-6308
jochoa@pechanga-nsn.gov

CONFIDENTIALITY NOTE: “This message and any documents or files attached to it contains confidential information and may be legally privileged. Recipients should not file copies of this message and/or attachments with publicly accessible records. If you are not the intended recipient or authorized agent for the intended recipient, you have received this message and attachments in error, and any review, dissemination, or reproduction is strictly prohibited. If you are not the intended recipient, please immediately notify us by reply email

or by telephone at 951-770-6308, and destroy the original transmission and its attachments without reading them or saving them.”

From: Stephanie Tang
Sent: Monday, May 1, 2023 11:57 AM
To: Ebru Ozdil; Juan Ochoa; Andrea Fernandez; tmendoza@pechanga-nsn.gov
Subject: RUSD STEM Center at UCR - AB 52 Consultation
Attachments: STEM AB52_NoticeLtr_Pechanga_5-1-23.pdf; RE: Pechanga Tribe AB52 Comments on RUSD STEM Ed. Center Project

Good morning Ebru,

It's been a while and hope everything has been going well on your end. I wanted to provide an AB 52 notice update re: the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. I have attached the last email communication we had dated August 16, 2022, providing the NAHC SLF as well as the CHRIS records search results per the Tribe's request. The purpose of this email is to provide an updated AB 52 notice (attached) and graphic below that shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice).

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.**



Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

UNIVERSITY OF CALIFORNIA, RIVERSIDE
 PLANNING, DESIGN & CONSTRUCTION
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 951.827.1484 | <https://cpp.ucr.edu/>

 Before printing, think about the environment.



Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

Updated: May 1, 2023

Original Date: April 13, 2022

Ebru Ozdil

Pechanga Band of Luiseño Indians

P.O. Box 1477

Temecula, CA 92593

Transmitted electronically:

cozdil@pechanga-nsn.gov; jochoa@pechanga-nsn.gov; afernandez@pechanga-nsn.gov;

tmendoza@pechanga-nsn.gov

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Ms. Ozdil:

Please note that updates to the AB 52 notice is provided below in ~~strikeout text~~ and underline text. Additionally, Exhibit 2 has been updated to depict the electrical feeder line upgrade alignment, associated site improvements, existing cell towers, and T-Mobile Cell Tower Relocation Area.

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 7 acres ~~6 acres~~ and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative

Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of proposed campus projects. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are ~~negative. pending response back from the NAHC.~~ If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

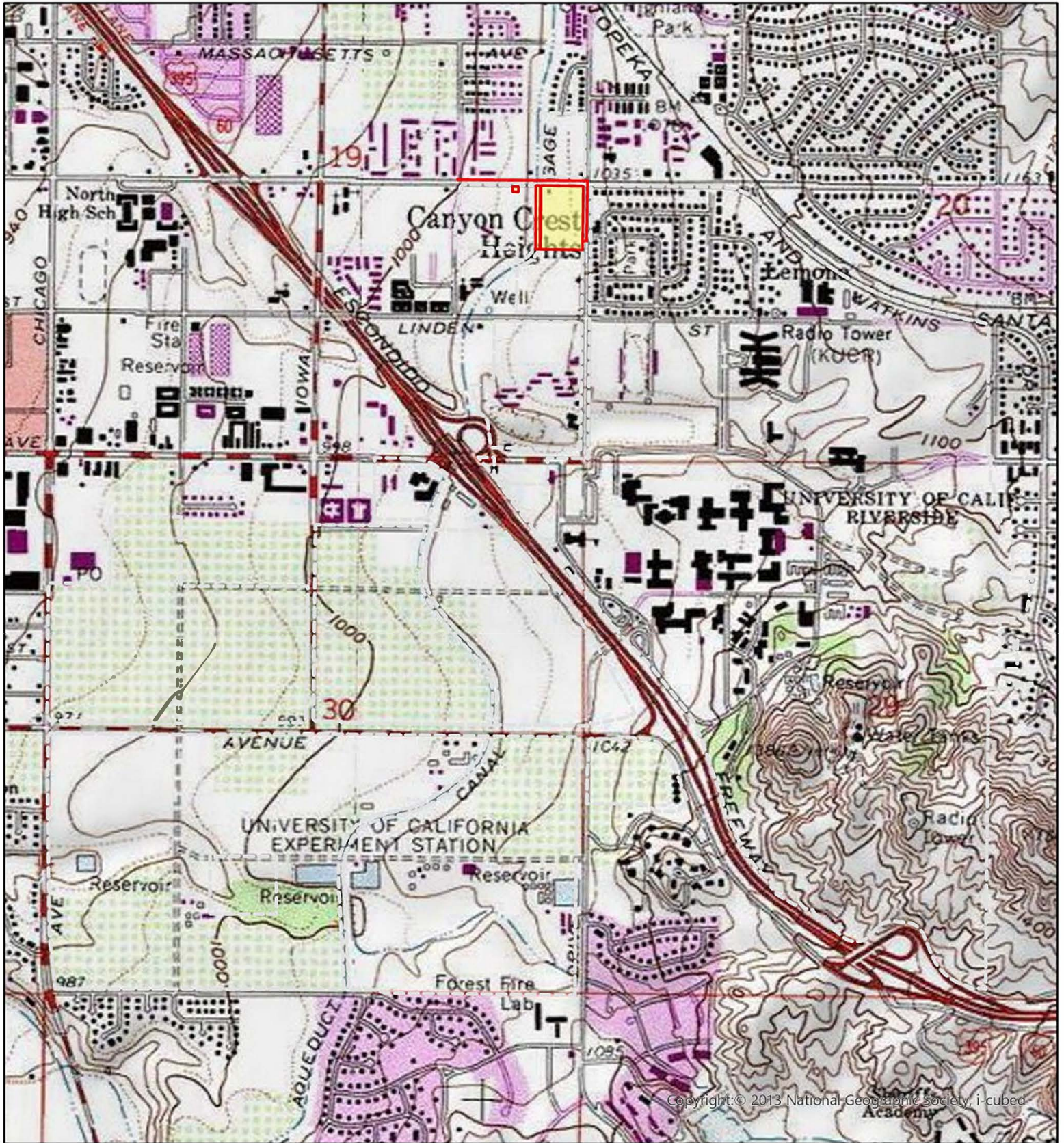
Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning



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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location

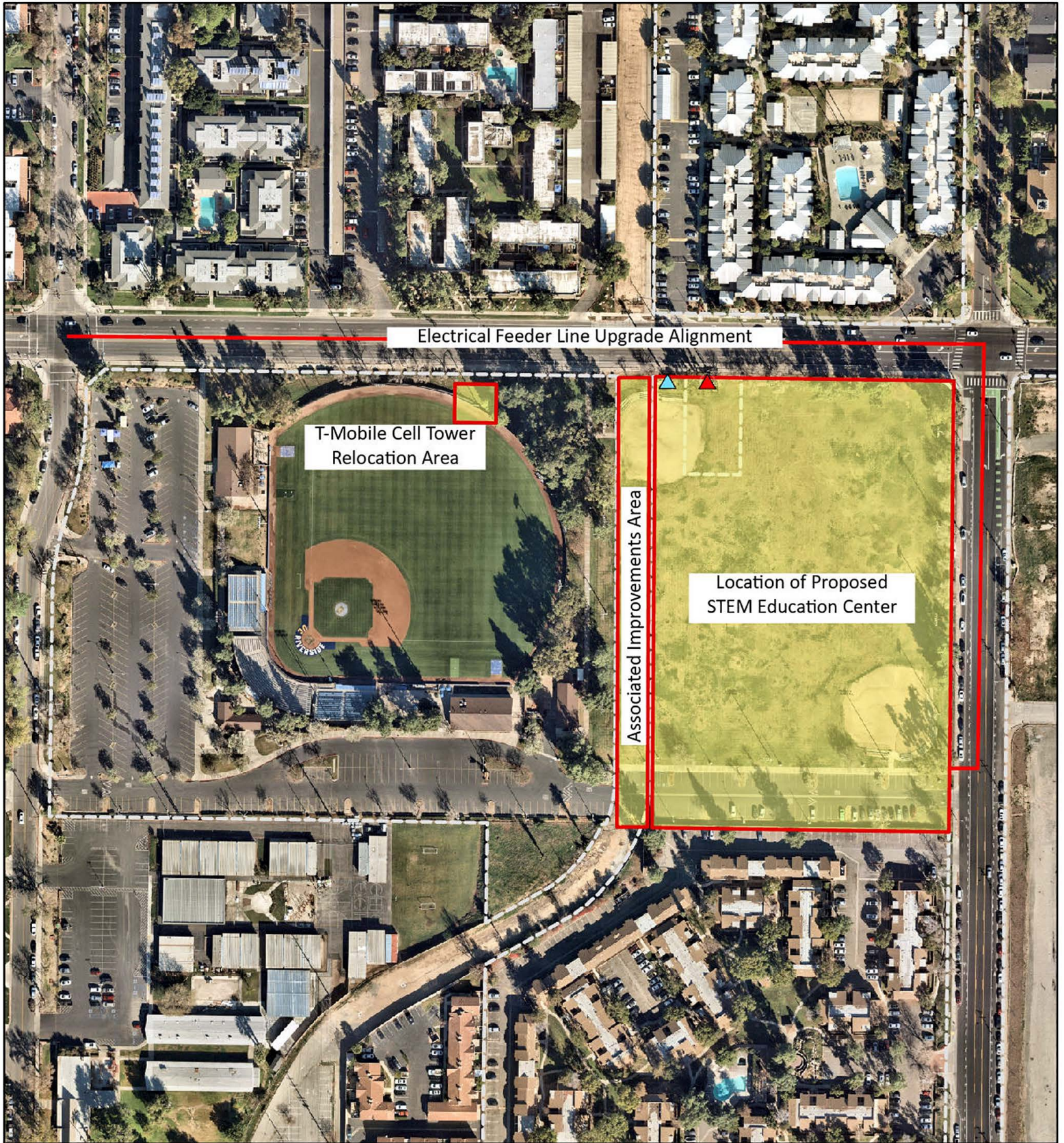


EXHIBIT 2



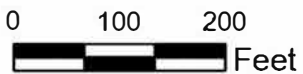
Project Site



Existing Cell Sites



UCR Campus Boundary



UCR Campus
RUSD STEM Education Center Project
Aerial Map

From: Ebru Ozdil <eozdil@pechanga-nsn.gov>
Sent: Monday, May 1, 2023 5:04 PM
To: Stephanie Tang; Juan Ochoa; Tina Thompson Mendoza
Cc: Molly Earp
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Stephanie,

Thank you for your email and updated notification. We will like to consult on this project and either Juan or Molly will reach out to schedule a zoom call with you.

Thanks

Ebru

From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Monday, May 1, 2023 11:57 AM
To: Ebru Ozdil <eozdil@pechanga-nsn.gov>; Juan Ochoa <jochoa@pechanga-nsn.gov>; Andrea Fernandez <afernandez@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Subject: RUSD STEM Center at UCR - AB 52 Consultation

Good morning Ebru,

It's been a while and hope everything has been going well on your end. I wanted to provide an AB 52 notice update re: the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. I have attached the last email communication we had dated August 16, 2022, providing the NAHC SLF as well as the CHRIS records search results per the Tribe's request. The purpose of this email is to provide an updated AB 52 notice (attached) and graphic below that shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice).

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.**



Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

UNIVERSITY OF CALIFORNIA, RIVERSIDE
 PLANNING, DESIGN & CONSTRUCTION
 1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
 951.827.1484 | <https://cpp.ucr.edu/>

 Before printing, think about the environment.

From: Stephanie Tang
Sent: Tuesday, May 2, 2023 8:10 AM
To: Ebru Ozdil; Juan Ochoa; Tina Thompson Mendoza
Cc: Molly Earp
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Good morning Ebru,

Thank you for your email. Juan/Molly – please let me know the Tribe’s availability for a zoom call and look forward to our upcoming consultation.

Respectfully,

Stephanie Tang
Assistant Director of Campus Planning
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

 Before printing, think about the environment.

From: Ebru Ozdil <eozdil@pechanga-nsn.gov>
Sent: Monday, May 1, 2023 5:04 PM
To: Stephanie Tang <stephanie.tang@ucr.edu>; Juan Ochoa <jochoa@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Cc: Molly Earp <mearp@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Stephanie,

Thank you for your email and updated notification. We will like to consult on this project and either Juan or Molly will reach out to schedule a zoom call with you.

Thanks

Ebru

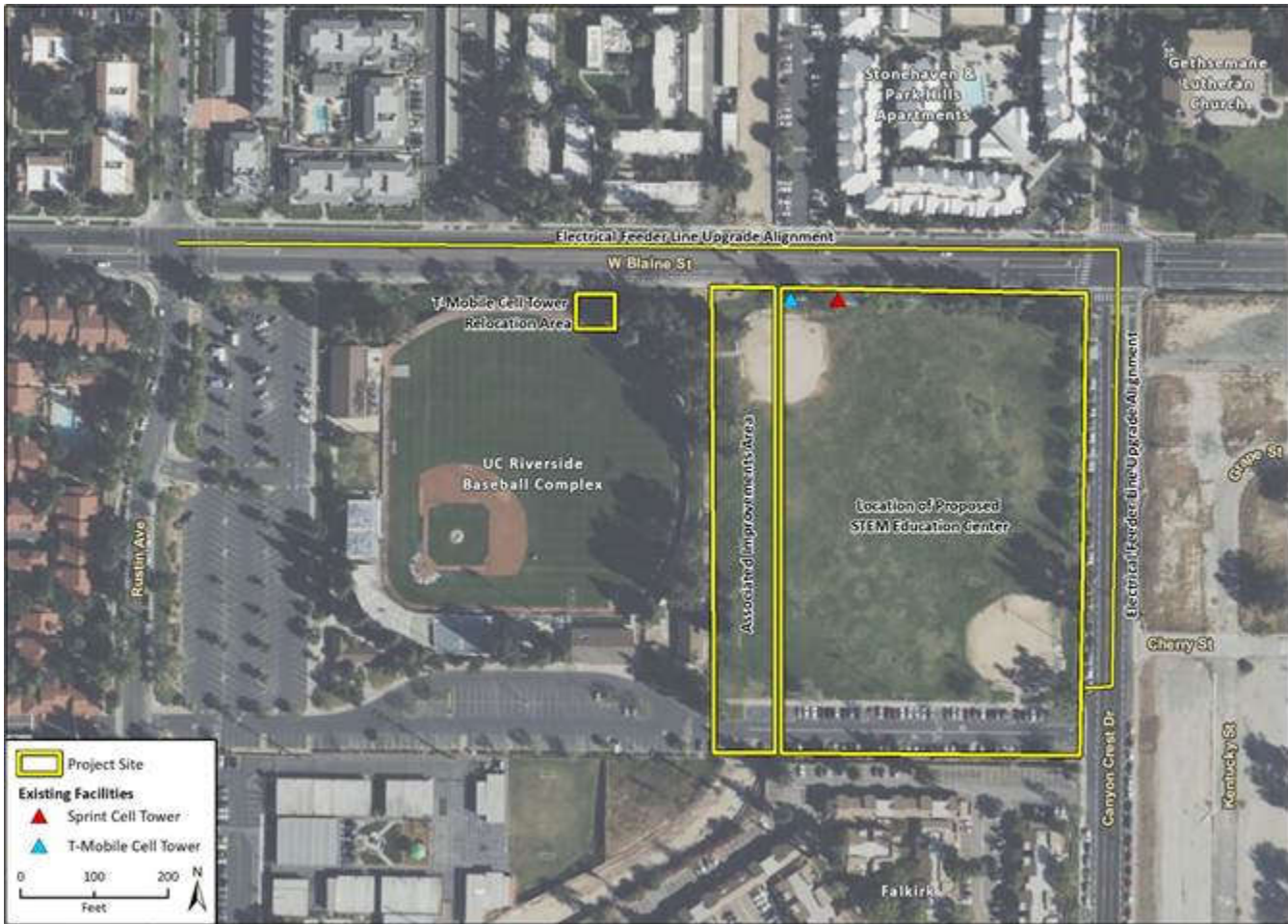
From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Monday, May 1, 2023 11:57 AM
To: Ebru Ozdil <eozdil@pechanga-nsn.gov>; Juan Ochoa <jochoa@pechanga-nsn.gov>; Andrea Fernandez <afernandez@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Subject: RUSD STEM Center at UCR - AB 52 Consultation

Good morning Ebru,

It’s been a while and hope everything has been going well on your end. I wanted to provide an AB 52 notice update re: the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. I have attached the last email communication we had dated August 16, 2022, providing the NAHC SLF as well as

the CHRIS records search results per the Tribe's request. The purpose of this email is to provide an updated AB 52 notice (attached) and graphic below that shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice).

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.**



Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

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1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

 Before printing, think about the environment.

From: Juan Ochoa <jochoa@pechanga-nsn.gov>
Sent: Tuesday, May 9, 2023 4:03 PM
To: Stephanie Tang
Cc: Molly Earp; Ebru Ozdil; Tina Thompson Mendoza; Paul Macarro
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Stephanie,

Invite was received.

Thank you,

Juan Ochoa, MLIS
Assistant Tribal Historic Preservation Officer
Pechanga Cultural Resources Department
P.O. Box 2183
Temecula, CA 92593
Office:(951)-770-6308
jochoa@pechanga-nsn.gov

From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Tuesday, May 9, 2023 3:50 PM
To: Juan Ochoa <jochoa@pechanga-nsn.gov>
Cc: Molly Earp <mearp@pechanga-nsn.gov>; Ebru Ozdil <eozeidil@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>; Paul Macarro <pmacarro@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Good afternoon Juan,

An outlook invite for May 24th at 1:30pm with a zoom link has been sent to the group. Please accept the calendar invite when you get a chance.

Respectfully,

Stephanie Tang
Assistant Director of Campus Planning
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

 Before printing, think about the environment.

From: Juan Ochoa <jochoa@pechanga-nsn.gov>
Sent: Tuesday, May 9, 2023 2:50 PM
To: Stephanie Tang <stephanie.tang@ucr.edu>
Cc: Molly Earp <mearp@pechanga-nsn.gov>; Ebru Ozdil <eozeidil@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>; Paul Macarro <pmacarro@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Stephanie,

Can you send us a Zoom invite and include all those CC'd on this email?

Thank you,

Juan Ochoa, MLIS
Assistant Tribal Historic Preservation Officer
Pechanga Cultural Resources Department
P.O. Box 2183
Temecula, CA 92593
Office:(951)-770-6308
jochoa@pechanga-nsn.gov

From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Monday, May 8, 2023 3:00 PM
To: Juan Ochoa <jochoa@pechanga-nsn.gov>; Ebru Ozdil <eozdil@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Cc: Molly Earp <mearp@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Juan,

Thank you for your email. I can meet May 24th from 1:30-2:30pm. Do you want to send the zoom/Teams link or me?

Respectfully,

Stephanie Tang
Assistant Director of Campus Planning
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

 Before printing, think about the environment.

From: Juan Ochoa <jochoa@pechanga-nsn.gov>
Sent: Tuesday, May 2, 2023 3:23 PM
To: Stephanie Tang <stephanie.tang@ucr.edu>; Ebru Ozdil <eozdil@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Cc: Molly Earp <mearp@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Stephanie,

The team is available to discuss May 24 (1:30pm-2:30pm) or May 26 (10am-11am). Let us know which date and time work best for you.

Regards,

Juan Ochoa, MLIS
Assistant Tribal Historic Preservation Officer

Pechanga Cultural Resources Department
P.O. Box 2183
Temecula, CA 92593
Office:(951)-770-6308
jochoa@pechanga-nsn.gov

From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Tuesday, May 2, 2023 8:10 AM
To: Ebru Ozdil <eozdil@pechanga-nsn.gov>; Juan Ochoa <jochoa@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Cc: Molly Earp <mearp@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Good morning Ebru,

Thank you for your email. Juan/Molly – please let me know the Tribe’s availability for a zoom call and look forward to our upcoming consultation.

Respectfully,

Stephanie Tang
Assistant Director of Campus Planning
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

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From: Ebru Ozdil <eozdil@pechanga-nsn.gov>
Sent: Monday, May 1, 2023 5:04 PM
To: Stephanie Tang <stephanie.tang@ucr.edu>; Juan Ochoa <jochoa@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Cc: Molly Earp <mearp@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Stephanie,

Thank you for your email and updated notification. We will like to consult on this project and either Juan or Molly will reach out to schedule a zoom call with you.

Thanks

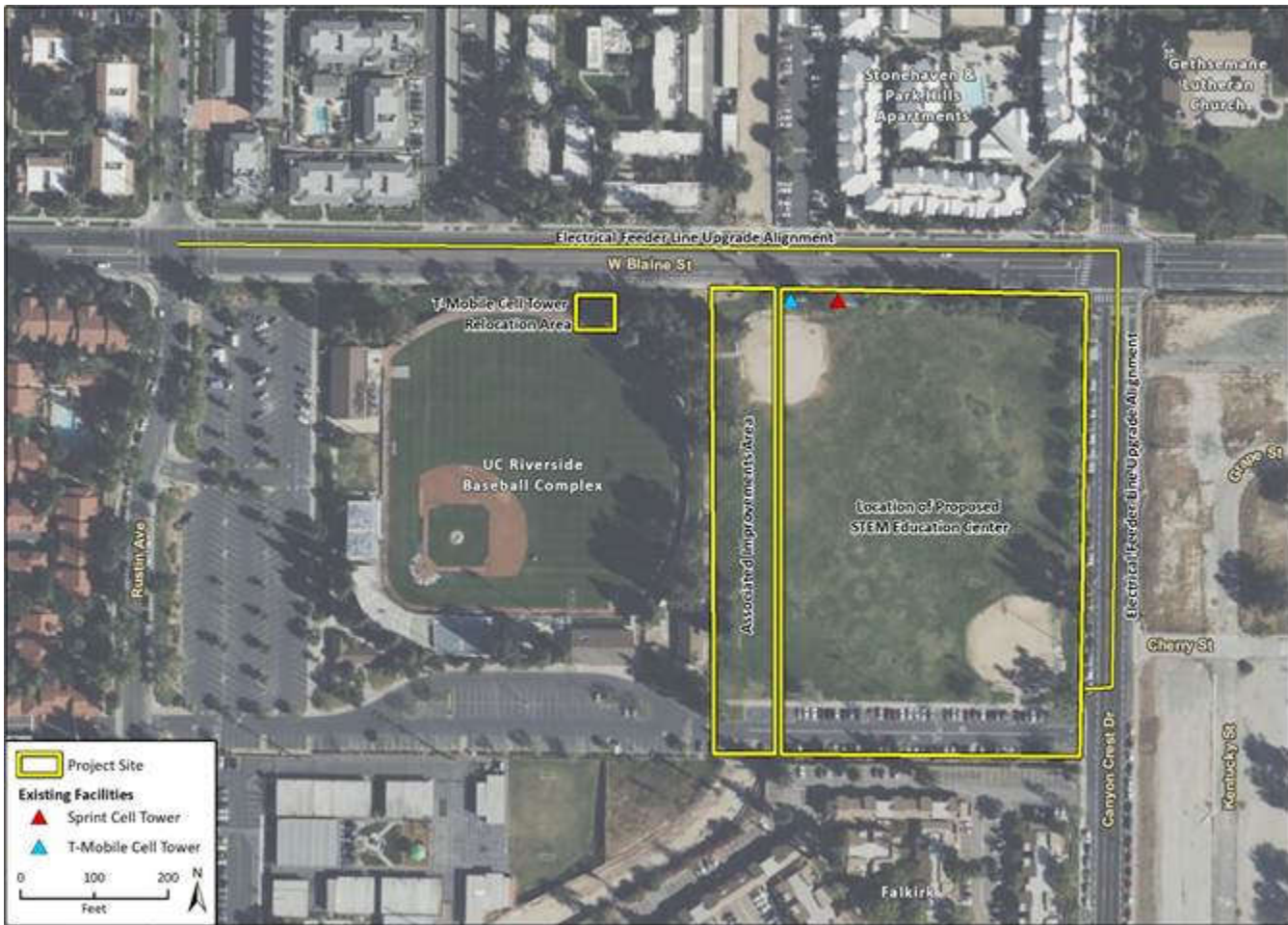
Ebru

From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Monday, May 1, 2023 11:57 AM
To: Ebru Ozdil <eozdil@pechanga-nsn.gov>; Juan Ochoa <jochoa@pechanga-nsn.gov>; Andrea Fernandez <afernandez@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Subject: RUSD STEM Center at UCR - AB 52 Consultation

Good morning Ebru,

It's been a while and hope everything has been going well on your end. I wanted to provide an AB 52 notice update re: the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. I have attached the last email communication we had dated August 16, 2022, providing the NAHC SLF as well as the CHRIS records search results per the Tribe's request. The purpose of this email is to provide an updated AB 52 notice (attached) and graphic below that shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice).

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.**



Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

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951.827.1484 | <https://cpp.ucr.edu/>

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From: Juan Ochoa <jochoa@pechanga-nsn.gov>
Sent: Tuesday, May 9, 2023 2:50 PM
To: Stephanie Tang
Cc: Molly Earp; Ebru Ozdil; Tina Thompson Mendoza; Paul Macarro
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Stephanie,

Can you send us a Zoom invite and include all those CC'd on this email?

Thank you,

Juan Ochoa, MLIS
Assistant Tribal Historic Preservation Officer
Pechanga Cultural Resources Department
P.O. Box 2183
Temecula, CA 92593
Office:(951)-770-6308
jochoa@pechanga-nsn.gov

From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Monday, May 8, 2023 3:00 PM
To: Juan Ochoa <jochoa@pechanga-nsn.gov>; Ebru Ozdil <eozdil@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Cc: Molly Earp <mearp@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Juan,

Thank you for your email. I can meet May 24th from 1:30-2:30pm. Do you want to send the zoom/Teams link or me?

Respectfully,

Stephanie Tang
Assistant Director of Campus Planning
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
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To: Stephanie Tang <stephanie.tang@ucr.edu>; Ebru Ozdil <eozdil@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
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Assistant Tribal Historic Preservation Officer
Pechanga Cultural Resources Department
P.O. Box 2183
Temecula, CA 92593
Office:(951)-770-6308
jochoa@pechanga-nsn.gov

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Sent: Tuesday, May 2, 2023 8:10 AM
To: Ebru Ozdil <eozdil@pechanga-nsn.gov>; Juan Ochoa <jochoa@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Cc: Molly Earp <mearp@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

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Stephanie Tang
Assistant Director of Campus Planning
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To: Stephanie Tang <stephanie.tang@ucr.edu>; Juan Ochoa <jochoa@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>
Cc: Molly Earp <mearp@pechanga-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

Hi Stephanie,

Thank you for your email and updated notification. We will like to consult on this project and either Juan or Molly will reach out to schedule a zoom call with you.

Thanks

Ebru

From: Stephanie Tang <stephanie.tang@ucr.edu>

Sent: Monday, May 1, 2023 11:57 AM

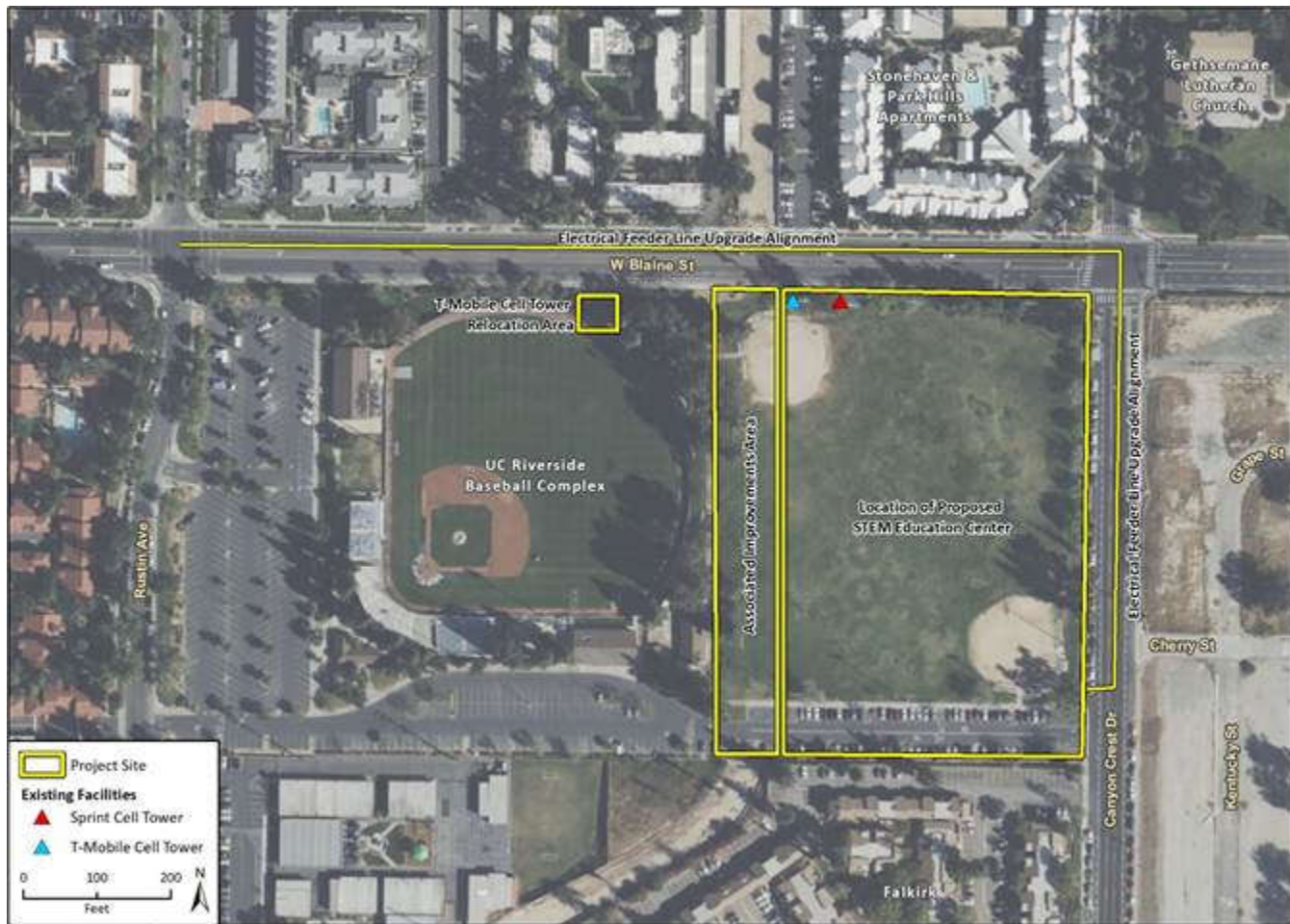
To: Ebru Ozdil <eozdil@pechanga-nsn.gov>; Juan Ochoa <jochoa@pechanga-nsn.gov>; Andrea Fernandez <afernandez@pechanga-nsn.gov>; Tina Thompson Mendoza <tmendoza@pechanga-nsn.gov>

Subject: RUSD STEM Center at UCR - AB 52 Consultation

Good morning Ebru,

It's been a while and hope everything has been going well on your end. I wanted to provide an AB 52 notice update re: the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. I have attached the last email communication we had dated August 16, 2022, providing the NAHC SLF as well as the CHRIS records search results per the Tribe's request. The purpose of this email is to provide an updated AB 52 notice (attached) and graphic below that shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice).

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.**



Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

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1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
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Before printing, think about the environment.

From: Stephanie Tang
Sent: Wednesday, July 19, 2023 2:56 PM
To: Juan Ochoa; Molly Earp; Ebru Ozdil; Tina Thompson Mendoza; Paul Macarro
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation
Attachments: STEM AB52_NoticeLtr_Pechanga_5-1-23.pdf; 221011_Blaine_ST_MOD Grading Plan - Three Spot Elevations.pdf; SLF No RUSD STEM Ed Center Project 4.19.2022.pdf

Hi Molly and Paul,

I hope this email finds you both well and you all are staying cool during these triple digit weather. I wanted to follow up on the AB 52 consultation we had on May 24, 2023 for the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. The below graphic shows the project site with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice previously sent to the Tribe). Additionally, per the Tribe's request during the AB 52 consultation, I have included the following:

- Conceptual rough grading plans.
- Copy of the NAHC SLF.

In regards to reviewing the draft Cultural and TCR sections, those sections will be provided to the public including the Tribe during the Draft EIR public review period. However, I have provided the draft Mitigation Measures for the Tribe's input:

- **Unanticipated Discovery of Archaeological Resources.** If previously undiscovered archaeological resources are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and the find shall be evaluated by a qualified archaeologist meeting the Secretary of the Interior standards to determine whether it is a unique archaeological resource, as defined by CEQA. If the find is not a unique archaeological resource, work may resume. If the find is determined to be a unique archaeological resource, the archaeologist shall make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to archaeological resources. If UCR determines that preservation in place is not feasible, the archaeologist shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.
- **Unanticipated Discovery of Tribal Cultural Resources.** If previously undiscovered cultural resources of Native American origin are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and a tribal representative shall be given notice and opportunity within 24 hours of discovery to determine in consultation with UCR whether it is a TCR, as defined by CEQA. If the find is not a TCR, work may resume. If the find is determined to be a TCR, the tribal representative shall be given the opportunity to make recommendations to UCR Planning, Design & Construction

staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to TCRs. If UCR determines that preservation in place is not feasible, UCR shall design and implement a treatment plan in consultation with local Native American group(s) and, if applicable, a qualified archaeologist; prepare a report; and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.

- **Tribal Cultural Resources Monitoring and Construction Worker Training.** UCR shall give notice and opportunity to a locally affiliated Tribe to provide a qualified Native American monitor to observe all ground-disturbing activities within native soils on the project site (i.e., those soils encountered at greater than four feet in depth). Notice shall be given no less than five (5) days prior to commencement of ground-disturbing activities within areas known or expected to contain native soils. The on-site monitoring shall end when project-related ground disturbing activities within native soils are completed, or, in consultation with the lead agency and Tribe(s) as appropriate and based on observed conditions, monitoring may be reduced or eliminated prior to completion of ground-disturbing activities, when the monitor(s) has indicated that the project site has a low potential to encounter tribal cultural resources. Consolidated monitoring efforts (e.g., tribal cultural and paleontological monitoring) may occur if the individual monitor meets the applicable qualifications. The Native American monitor shall also be given notice and opportunity to provide preconstruction training for all earthmoving construction personnel prior to the start of any ground disturbing activities. The training shall include instruction on how to recognize the types of tribal cultural resources that may be encountered, and appropriate actions to be taken by the construction personnel in the event of an unanticipated discovery of a tribal cultural resource. The Native American monitor shall also be given the opportunity to provide a fact sheet conveying this information for distribution to all contractors, their employees, and other personnel involved with construction of the project. All employees shall sign a form provided by the Native American monitor documenting they attended the worker training and understand the information presented. If new construction personnel are added to the project, the crew foreman shall ensure the new personnel receive the worker training fact sheet before starting work. The UCR Planning, Design & Construction Project Manager/contractor shall retain documentation showing when training of personnel was completed.

Please let me know if you have additional questions and look forward to any input on the proposed draft mitigation measures. Requesting this feedback by **July 28, 2023**.



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Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

UNIVERSITY OF CALIFORNIA, RIVERSIDE
 PLANNING, DESIGN & CONSTRUCTION
 1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
 951.827.1484 | <https://cpp.ucr.edu/>

 Before printing, think about the environment.

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 10:37 AM
To: 'CMadrigal@rincon-nsn.gov'; 'CRD@rincon-nsn.gov'
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_Rincon_4-13-22.pdf; RE: RUSD STEM Center at UC Riverside

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

UCR received your request for formal notification of proposed campus projects. The attached letter is intended as formal notification of the proposed project pursuant to AB 52. The Tribe has provided comments during the Notice of Preparation review period for the proposed project and requested to initiate consultation.

Please let me know the Tribe's availability and I will schedule a zoom call. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang
Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>



Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

April 13, 2022

Cheryl Madrigal
Tribal Historic Preservation Officer
Cultural Resources Manager
Rincon Band of Luiseño Indians
One Government Center Lane
Valley Center, CA 92082

CMadrigal@rincon-nsn.gov, CRD@rincon-nsn.gov

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Ms. Madrigal:

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 6 acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of proposed campus projects. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are pending response back from the NAHC. If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

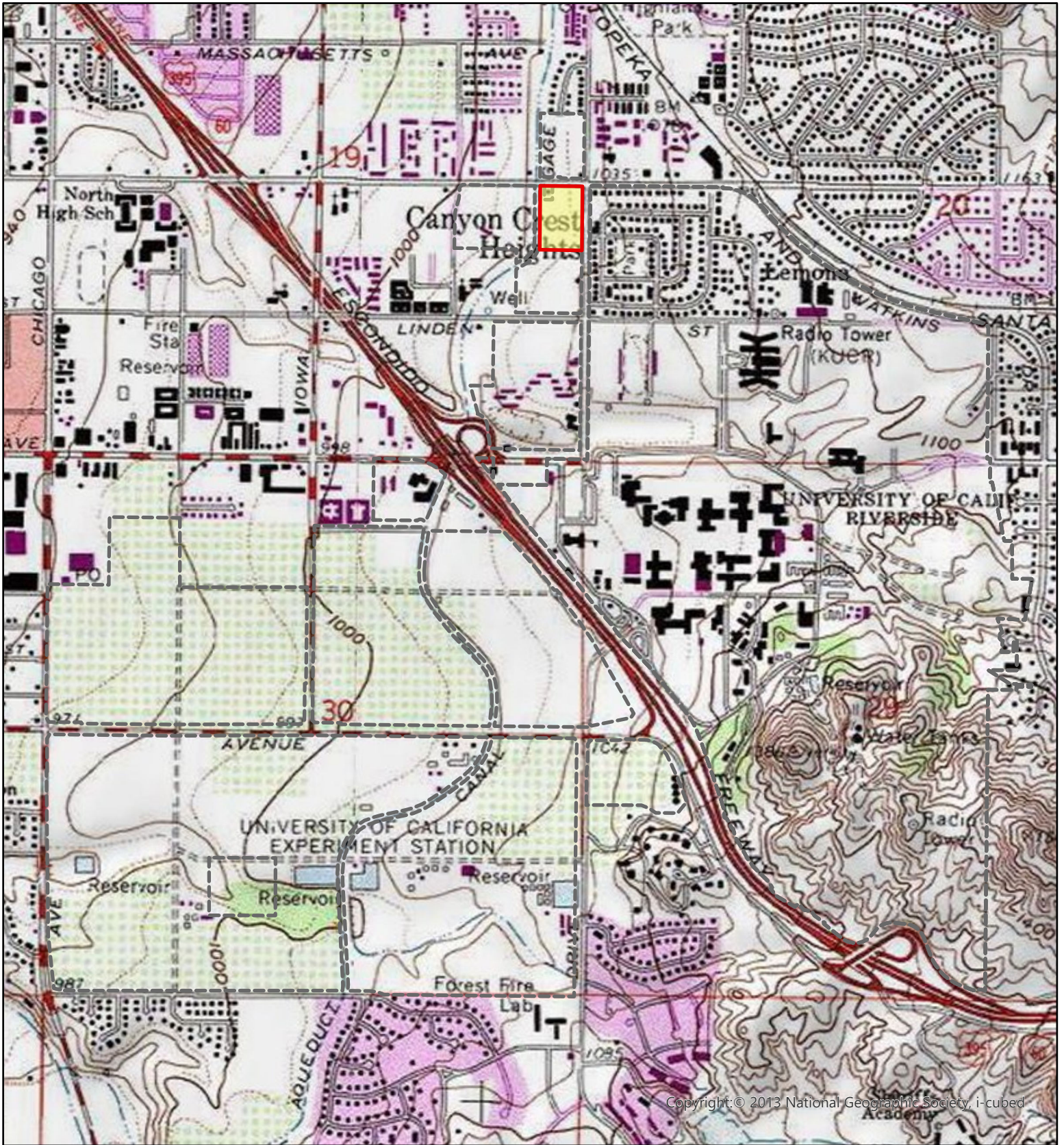
Stephanie Tang
Campus Environmental Planner
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
Campus Environmental Planner



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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location

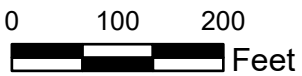


EXHIBIT 2



 Project Site

 UCR Campus Boundary



UCR Campus
RUSD STEM Education Center Project
Aerial Map

From: [Cheryl Madrigal](#)
To: [Stephanie Tang](#)
Cc: [Deneen Pelton](#)
Subject: RUSD STEM Center at UCR
Date: Wednesday, May 18, 2022 11:17:08 AM
Attachments: [RUSD STEM Center at UCR.pdf](#)

Stephanie,

Please see attached response letter to above mentioned project. If you have any questions or comments, please contact us.

Thank you for the opportunity to protect our cultural assets.

Cheryl

Cheryl Madrigal

Cultural Resources Manager
Tribal Historic Preservation Officer
Cultural Resources Department

Rincon Band of Luiseño Indians

1 West Tribal Road | Valley Center, CA 92082

Mailing address: One Government Center Ln. | Valley Center, CA 92082

Office: (760) 749 1092 ext. 323 | Cell: 760-648-3000

Fax: 760-749-8901

Email: cmadrigal@rincon-nsn.gov



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Rincon Band of Luiseño Indians

CULTURAL RESOURCES DEPARTMENT

One Government Center Lane | Valley Center | CA 92082
(760) 749-1092 | Fax: (760) 749-8901 | rincon-nsn.gov



May 18, 2022

Sent via email: stephanie.tang@ucr.edu

Ms. Stephanie Tang
UC Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Re: Request for AB52 Consultation on the RUSD STEM Center at the University of California, Riverside

Dear Ms. Tang,

This letter is written on behalf of the Rincon Band of Luiseño Indians (“Rincon Band” or “Tribe”), a federally recognized Indian Tribe and sovereign government. We have received your notification regarding the above-mentioned project and we request consultation to assess potential impacts to cultural resources. The identified location is within the Traditional Use Area (TUA) of the Luiseño people and within the Rincon Band’s specific Area of Historic Interest (AHI). As such, the Rincon Band is traditionally and culturally affiliated to the project area.

We kindly ask to be provided with copies of existing documents pertaining to the project such as the cultural survey including the archaeological site records, shape files, archaeological record search results, geotechnical report, and the grading plans. Upon receipt and review, the Tribe would like to consult on the project in order to learn more about any potential impacts to cultural resources.

If you have additional questions or concerns, please do not hesitate to contact our office at your convenience at (760) 749 1092 ext. 323 or via electronic mail at cmadrigal@rincon-nsn.gov. Thank you for the opportunity to protect and preserve our cultural assets.

Sincerely,



Cheryl Madrigal
Tribal Historic Preservation Officer
Cultural Resources Manager

From: [Stephanie Tang](#)
To: [Cheryl Madrigal](#)
Cc: [Deneen Pelton](#)
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation
Date: Tuesday, August 16, 2022 10:44:00 AM
Attachments: [SLF No RUSD STEM Ed Center Project 4.19.2022.pdf](#)

Hi Cheryl,

Thank you for your response letter to the UCR STEM AB 52 notice. Attached, please find the NAHC SLF. Due to the number of files and file size, please click on the following link for the [Confidential - CHRIS Records Search](#).

The project is still in it's preliminary planning stage so no grading plans or geotechnical report has been prepared.

Please review the provided files and let me know when the tribe wishes to consult on this project. If you could provide a few dates/timeframes of the tribe's availability.

Thank you.

Respectfully,

Stephanie Tang

Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PLANNING, DESIGN & CONSTRUCTION

1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507

951.827.1484 | <https://cpp.ucr.edu/>

From: Cheryl Madrigal <CMadrigal@rincon-nsn.gov>

Sent: Wednesday, May 18, 2022 11:17 AM

To: Stephanie Tang <stephanie.tang@ucr.edu>

Cc: Deneen Pelton <DPelton@rincon-nsn.gov>

Subject: RUSD STEM Center at UCR

Stephanie,

Please see attached response letter to above mentioned project. If you have any questions or comments, please contact us.

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Cheryl

Cheryl Madrigal

Cultural Resources Manager

Tribal Historic Preservation Officer

Cultural Resources Department

Rincon Band of Luiseño Indians

1 West Tribal Road | Valley Center, CA 92082

Mailing address: One Government Center Ln. | Valley Center, CA 92082

Office: (760) 749 1092 ext. 323 | Cell: 760-648-3000

Fax: 760-749-8901

Email: cmadrigal@rincon-nsn.gov



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From: [Cheryl Madrigal](#)
To: [Stephanie Tang](#)
Cc: [Deneen Pelton](#)
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation
Date: Monday, August 22, 2022 9:50:02 AM

Good morning, Stephanie,

Thank you for providing the NAHC SLF. I would like to schedule a consultation but would prefer to see the project plans and Geotech prior.

When are you expecting to be able to provide additional project information?

Thanks,

Cheryl

Cheryl Madrigal

Cultural Resources Manager
Tribal Historic Preservation Officer
Cultural Resources Department

Rincon Band of Luiseño Indians

1 West Tribal Road | Valley Center, CA 92082
Office: (760) 749 1092 ext. 323 | Cell: 760-648-3000
Fax: 760-749-8901
Email: cmadrigal@rincon-nsn.gov



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From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Tuesday, August 16, 2022 10:44 AM
To: Cheryl Madrigal <CMadrigal@rincon-nsn.gov>
Cc: Deneen Pelton <DPelton@rincon-nsn.gov>
Subject: RE: RUSD STEM Center at UCR - AB 52 Consultation

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Hi Cheryl,

Thank you for your response letter to the UCR STEM AB 52 notice. Attached, please find the NAHC SLF. Due to the number of files and file size, please click on the following link for the [Confidential - CHRIS Records Search](#).

The project is still in it's preliminary planning stage so no grading plans or geotechnical report has been prepared.

Please review the provided files and let me know when the tribe wishes to consult on this project. If you could provide a few dates/timeframes of the tribe's availability.

Thank you.

Respectfully,

Stephanie Tang

Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

From: Cheryl Madrigal <CMadrigal@rincon-nsn.gov>
Sent: Wednesday, May 18, 2022 11:17 AM
To: Stephanie Tang <stephanie.tang@ucr.edu>
Cc: Deneen Pelton <DPelton@rincon-nsn.gov>
Subject: RUSD STEM Center at UCR

Stephanie,

Please see attached response letter to above mentioned project. If you have any questions or comments, please contact us.

Thank you for the opportunity to protect our cultural assets.

Cheryl

Cheryl Madrigal

Cultural Resources Manager
Tribal Historic Preservation Officer
Cultural Resources Department

Rincon Band of Luiseño Indians

1 West Tribal Road | Valley Center, CA 92082

Mailing address: One Government Center Ln. | Valley Center, CA 92082

Office: (760) 749 1092 ext. 323 | Cell: 760-648-3000

Fax: 760-749-8901

Email: cmadrigal@rincon-nsn.gov



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From: Cheryl Madrigal <CMadrigal@rincon-nsn.gov>
Sent: Friday, October 7, 2022 3:52 PM
To: Stephanie Tang
Cc: Gaby Adame; Deneen Pelton
Subject: RUSD STEM Center
Attachments: RUSD Stem Center 10072022 .pdf

Stephanie,

Please see attached response letter to above mentioned project. If you have any questions or comments, please contact us.

Thank you for the opportunity to protect our cultural assets.

Cheryl

Cheryl Madrigal

Cultural Resources Manager

Tribal Historic Preservation Officer

Cultural Resources Department

Rincon Band of Luiseño Indians

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Office: (760) 749 1092 ext. 323 | Cell: 760-648-3000

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Rincon Band of Luiseño Indians

CULTURAL RESOURCES DEPARTMENT

One Government Center Lane | Valley Center | CA 92082
(760) 749-1092 | Fax: (760) 749-8901 | rincon-nsn.gov



October 7, 2022

Sent via email: stephanie.tang@ucr.edu

University of California, Riverside
Planning, Design & Construction
Ms. Stephanie Tang
1223 University Ave., Suite 240
Riverside, CA 92507

Re: RUSD STEM Center at UC Riverside

Dear Ms. Tang,

This letter is written on behalf of the Rincon Band of Luiseño Indians (“Rincon Band” or “Tribe”), a federally recognized Indian Tribe and sovereign government. Thank you so much for consulting with the Tribe on the RUSD STEM Center at UC Riverside.

As per our ongoing consultation, this is a follow-up to yesterday’s virtual meeting with UCR, RUSD, and the Tribe would like to reiterate concerns and comments the Tribe has regarding this project. As stated in the CEQA guiding documents published through the website of the Governor’s Office, the CEQA “process is intended to: (1) inform government decisionmakers and the public about the potential environmental effects of proposed activities; (2) identify the ways that environmental damage can be avoided or significantly reduced; (3) prevent significant, avoidable environmental damage by requiring changes in projects, either by the adoption of alternatives or imposition of mitigation measures; and (4) disclose to the public why a project was approved if that project has significant environmental impacts that cannot be mitigated to a less than significant level”.¹

CEQA 21060.5. further clarifies that the “Environment means the physical conditions that exist within the area which will be affected by a proposed project, including, land, air, water, minerals, flora, fauna, noise, or objects of historic or aesthetic significance.”

During our ongoing consultation, we were informed by UCR and RUSD that the conceptual drawing as provided to the Tribe via email on August 30, 2022, is currently the only document available regarding the expected construction. We believe the conceptual drawing is insufficient for an assessment of the project’s impacts to tribal cultural resources, and we ask to be provided with the following information:

- Preliminary grading plans
These plans are important to identify areas of expected ground disturbance. The plans are also essential to identify number and size of equipment including expected depth of ground disturbance.

¹ https://opr.ca.gov/ceqa/docs/20210809-CEQA_101.pdf

- Staging areas
These areas could potentially impact the environment including impacts to tribal cultural resources. We ask to be provided with any information regarding staging areas.
- Off-site improvements
It is unclear at this time if any off-site improvements are planned as neither UCR nor RUSD was able to confirm off-site improvements or was able to state that none were going to happen. As no information has been provided to the Tribe regarding off-site improvements, which could include any additional sidewalks, road widenings, bus stations, etc., we are asking to receive a map that will identify off-site improvements. If none are planned, please let us know.
- Soil import and/or export
It is of particular interest to the Tribe to learn if soil will be exported and or imported. As any ground disturbing activities hold potential to unearth cultural materials, the extent including depth of the ground disturbing activities need to be considered when avoidance and mitigation measures are being developed.

As previously stated, the Tribes asks to be provided with the cultural resources assessment, biological survey, and any soils analysis that was conducted at this time. Upon receipt and review, the Rincon Band would like to further consult on the project to discuss any potential impacts to cultural resources.

If you have additional questions or concerns, please do not hesitate to contact our office at your convenience at (760) 749 1092 ext. 323 or via electronic mail at cmadrigal@rincon-nsn.gov. Thank you for the opportunity to protect and preserve our cultural assets.

Sincerely,



Cheryl Madrigal
Tribal Historic Preservation Officer
Cultural Resources Manager

From: Stephanie Tang
Sent: Monday, May 1, 2023 9:58 AM
To: 'Cheryl Madrigal'
Cc: Deneen Pelton; 'CRD@rincon-nsn.gov'
Subject: RUSD STEM Center at UCR - AB 52 Consultation
Attachments: RUSD Stem Center 10072022 .pdf; 221011_Blaine_ST._MOD Grading Plan - Three Spot Elevations.pdf; STEM AB52_NoticeLtr_Rincon_5-1-23.pdf

Good morning Cheryl,

It's been a while and hope everything has been going well on your end. I wanted to touch base with you on the Tribe's letter (attached) dated October 7, 2022 for the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. The below graphic shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice). The below text includes the Tribe's request for additional information and UCR's response.

- Tribe's request: Preliminary grading plans
 - UCR Response: Please see attached the conceptual rough grading plans for your reference.
- Tribe's request: Identifying staging areas
 - UCR Response: The attached conceptual rough grading plans notes the construction staging and laydown area.
- Tribe's request: Identifying off-site improvements
 - UCR Response: Please refer to the graphic below that shows the electrical feeder line upgrade alignment and the associated improvements area. Work within the associated improvements area would be limited to the removal of existing bleachers, lighting, and the baseball diamond; installation of replacement landscaping or conditions similar to that of the existing Gage Canal portion north of Blaine Street; and replacement or relocation of an existing water utility line that runs below the Gage Canal. No modifications to the Gage Canal itself would occur, and no heavy equipment would be utilized on top of the Gage Canal to complete these improvements.
- Tribe's request: Soil import and/or export
 - UCR Response: Grading would be balanced and would not require export or import of cut or fill material.
- Tribe's request: Provide the cultural resources assessment, biological survey, and any soils analysis that was conducted at this time.
 - UCR response: As part of the Draft EIR public review, the cultural resources assessment, biological assessment, and report that provides soils information will be included in the applicable Draft EIR section and/or appendices and be made available during the Draft EIR public review. I want to note that the NAHC SLF search was negative and the draft cultural resources memo that was prepared concluded that no archaeological resources were identified during the field survey. It should be noted that native soils was encountered at 4

feet and therefore, the following proposed Cultural/TCR mitigation measure(s) is included in the Draft EIR:

- **Unanticipated Discovery of Archaeological Resources.** If previously undiscovered archaeological resources are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and the find shall be evaluated by a qualified archaeologist meeting the Secretary of the Interior standards to determine whether it is a unique archaeological resource, as defined by CEQA. If the find is not a unique archaeological resource, work may resume. If the find is determined to be a unique archaeological resource, the archaeologist shall make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to archaeological resources. If UCR determines that preservation in place is not feasible, the archaeologist shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.

- **Unanticipated Discovery of Tribal Cultural Resources.** If previously undiscovered cultural resources of Native American origin are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and a tribal representative shall be given notice and opportunity within 24 hours of discovery to determine in consultation with UCR whether it is a TCR, as defined by CEQA. If the find is not a TCR, work may resume. If the find is determined to be a TCR, the tribal representative shall be given the opportunity to make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to TCRs. If UCR determines that preservation in place is not feasible, UCR shall design and implement a treatment plan in consultation with local Native American group(s) and, if applicable, a qualified archaeologist; prepare a report; and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.

- **Tribal Cultural Resources Monitoring and Construction Worker Training.** UCR shall give notice and opportunity to a locally affiliated Tribe to provide a qualified Native American monitor to observe all ground-disturbing activities within native soils on the project site (i.e., those soils encountered at greater than four feet in depth). Notice shall be given no less than five (5) days prior to commencement of ground-disturbing activities within areas known or expected to contain native soils. The on-site monitoring shall end when project-related ground disturbing activities within native soils are completed, or, in consultation with the lead agency and Tribe(s) as appropriate and based on observed conditions, monitoring may be reduced or eliminated prior to completion of ground-disturbing activities, when the monitor(s)

has indicated that the project site has a low potential to encounter tribal cultural resources. Consolidated monitoring efforts (e.g., tribal cultural and paleontological monitoring) may occur if the individual monitor meets the applicable qualifications. The Native American monitor shall also be given notice and opportunity to provide preconstruction training for all earthmoving construction personnel prior to the start of any ground disturbing activities. The training shall include instruction on how to recognize the types of tribal cultural resources that may be encountered, and appropriate actions to be taken by the construction personnel in the event of an unanticipated discovery of a tribal cultural resource. The Native American monitor shall also be given the opportunity to provide a fact sheet conveying this information for distribution to all contractors, their employees, and other personnel involved with construction of the project. All employees shall sign a form provided by the Native American monitor documenting they attended the worker training and understand the information presented. If new construction personnel are added to the project, the crew foreman shall ensure the new personnel receive the worker training fact sheet before starting work. The UCR Planning, Design & Construction Project Manager/contractor shall retain documentation showing when training of personnel was completed.

- UCR Response: The biological resources analysis concluded no significant impacts. Mitigation measures have been included to avoid impacts to nesting bird avoidance, bird strike avoidance, and bat preconstruction survey.

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.**



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Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

UNIVERSITY OF CALIFORNIA, RIVERSIDE
 PLANNING, DESIGN & CONSTRUCTION
 1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
 951.827.1484 | <https://cpp.ucr.edu/>

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Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

Updated: May 1, 2023

Original Date: April 13, 2022

Cheryl Madrigal
Tribal Historic Preservation Officer
Cultural Resources Manager
Rincon Band of Luiseño Indians
One Government Center Lane
Valley Center, CA 92082

Transmitted electronically:

CMadrigal@rincon-nsn.gov, CRD@rincon-nsn.gov, Deneen Pelton <DPelton@rincon-nsn.gov>

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Ms. Madrigal:

Please note that updates to the AB 52 notice is provided below in ~~strikeout text~~ and underline text. Additionally, Exhibit 2 has been updated to depict the electrical feeder line upgrade alignment, associated site improvements, existing cell towers, and T-Mobile Cell Tower Relocation Area.

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 7 acres ~~6 acres~~ and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative

Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of proposed campus projects. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are ~~negative. pending response back from the NAHC.~~ If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

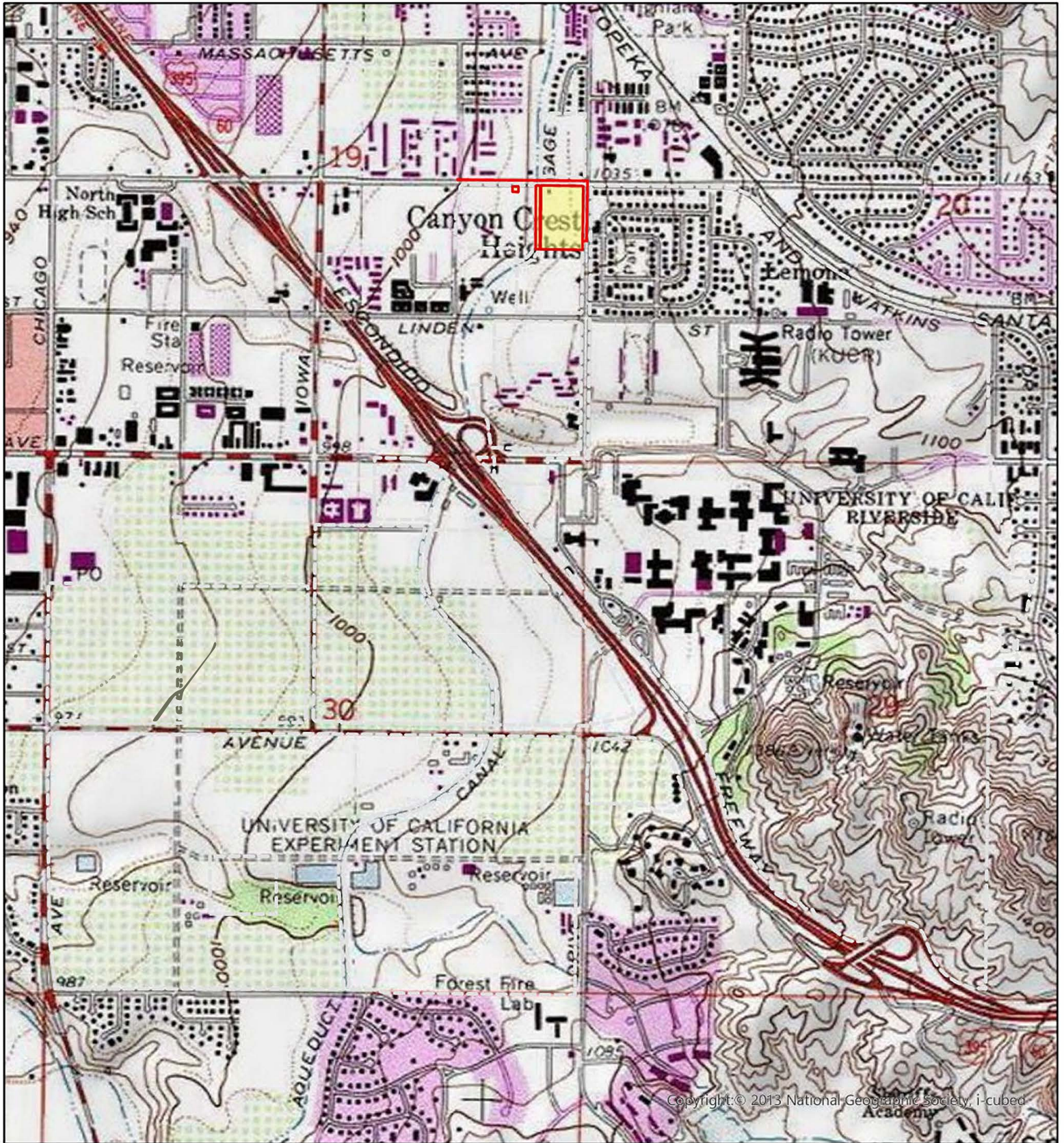
Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning

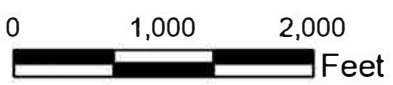


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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location



EXHIBIT 2



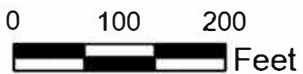
Project Site



Existing Cell Sites



UCR Campus Boundary



UCR Campus
RUSD STEM Education Center Project
Aerial Map

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 10:53 AM
To: 'mmirelez@tmdci.org'
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_TMDCI_4-13-22.pdf

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

UCR received your request for formal notification of proposed projects within the Torres Martinez Desert Cahuilla Indians Traditional Use Area. The attached letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang
Campus Environmental Planner
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

April 13, 2022

Michael Mirelez
Cultural Resource Coordinator
Torres Martinez Desert Cahuilla Indians
P.O. Box 1160
Thermal, CA 92274

mmirelez@tmdci.org

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Mr. Mirelez:

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 6 acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

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Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of proposed projects within the Torres Martinez Desert Cahuilla Indians Traditional Use Area. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are pending response back from the NAHC. If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

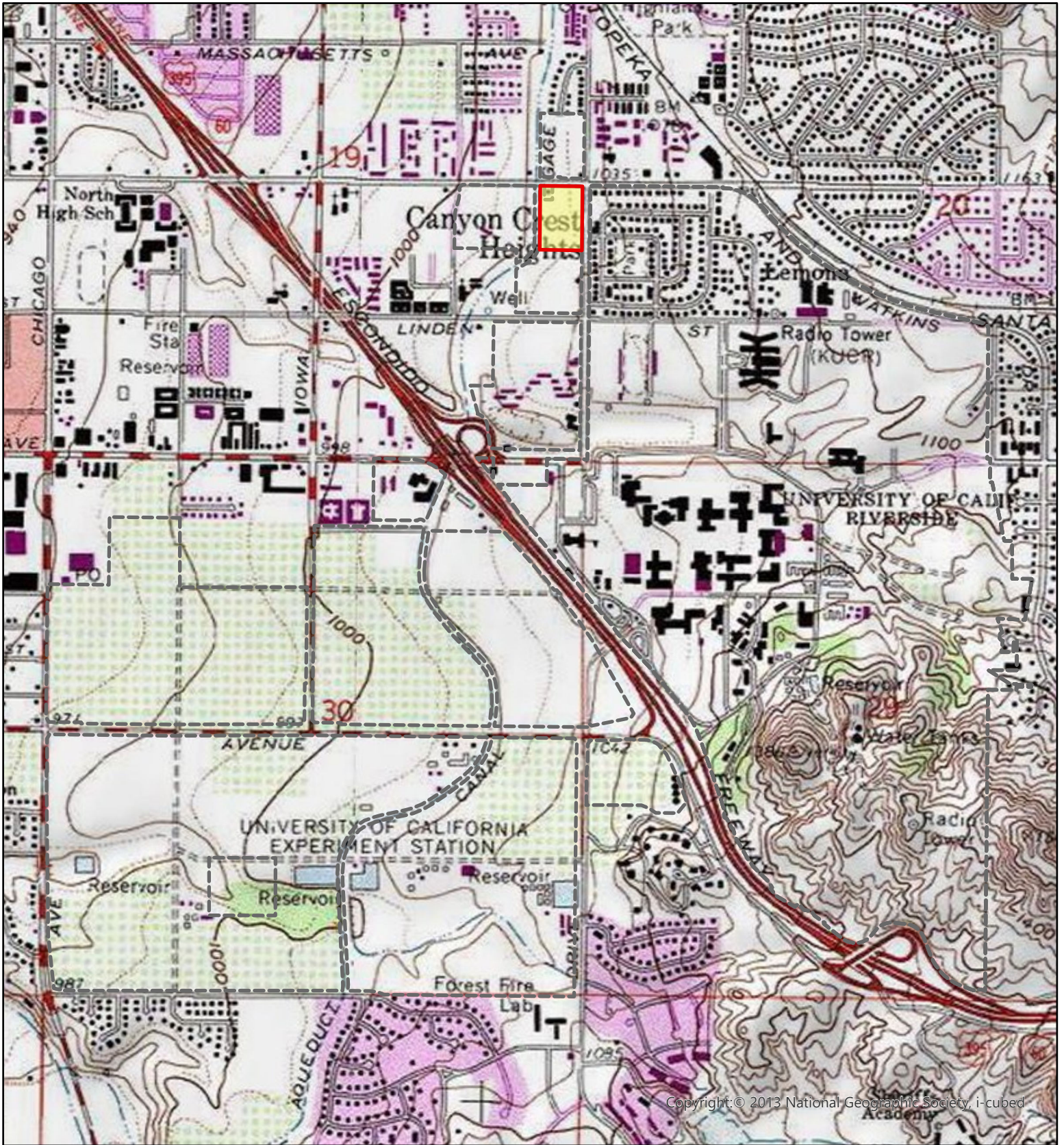
Stephanie Tang
Campus Environmental Planner
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
Campus Environmental Planner



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EXHIBIT 1



 Project Site

 UCR Campus Boundary



UCR Campus
RUSD STEM Education Center Project
Regional Location

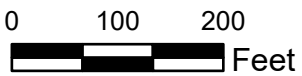


EXHIBIT 2



 Project Site

 UCR Campus Boundary



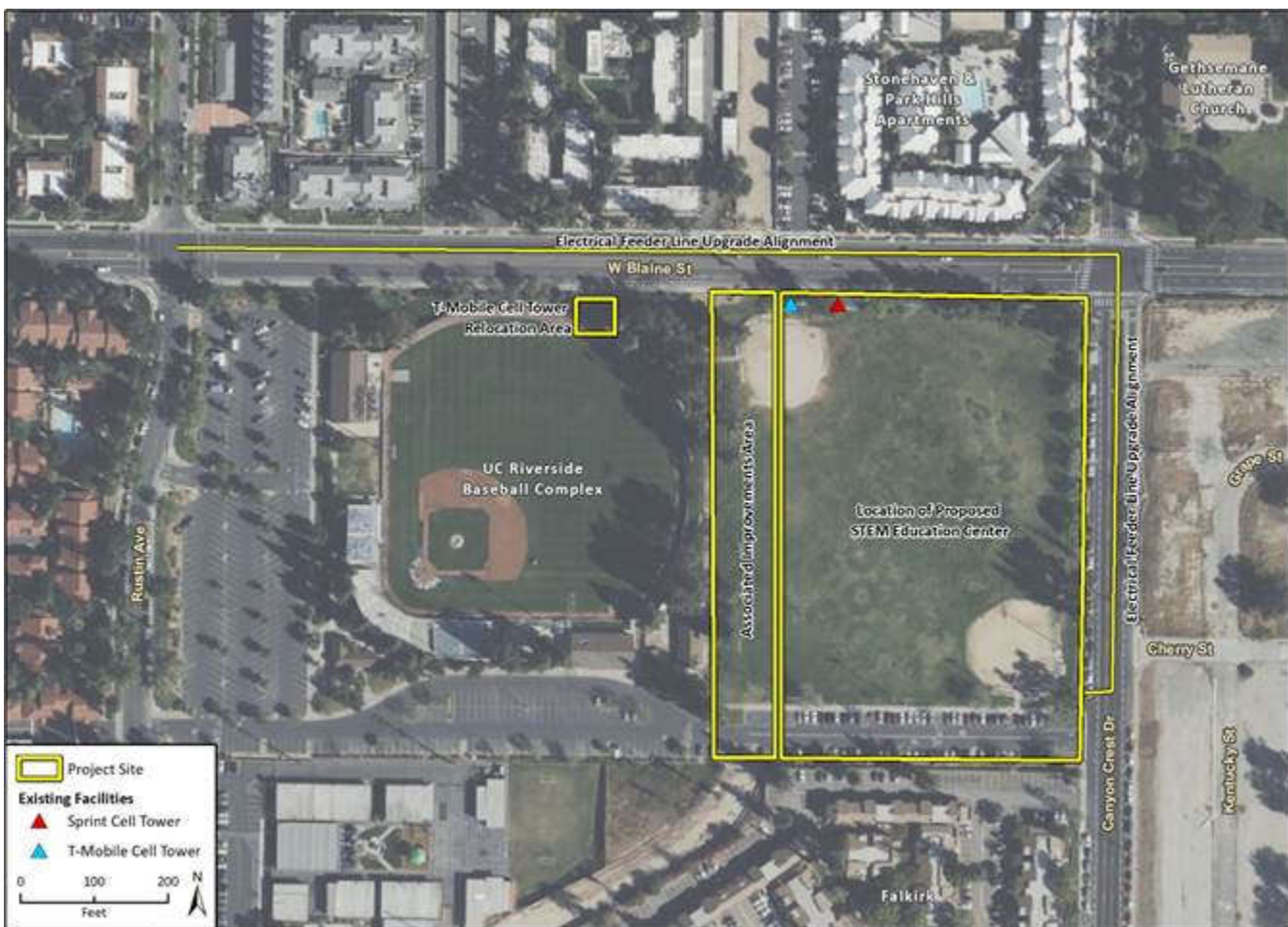
UCR Campus
RUSD STEM Education Center Project
Aerial Map

From: Stephanie Tang
Sent: Monday, May 1, 2023 2:38 PM
To: 'Altrena.Santillanes@torresmartinez-nsn.gov'
Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_TMDCI_5-1-23.pdf

Hi Altrena,

I wanted to provide an AB 52 notice update re: the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. I have not heard from the Tribe since my last email correspondence August 2022. The purpose of this email is to provide an updated AB 52 notice (attached) and graphic below that shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice).

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.**



Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

 Before printing, think about the environment.

From: Stephanie Tang
Sent: Tuesday, August 16, 2022 10:09 AM
To: Altrena.Santillanes@torresmartinez-nsn.gov
Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Hi Altrena,

Apologies, I wanted to also note if you could kindly confirm receipt of this email.

Thank you.

Respectfully,

Stephanie Tang

Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

From: Stephanie Tang
Sent: Tuesday, August 16, 2022 10:06 AM
To: Altrena.Santillanes@torresmartinez-nsn.gov
Subject: FW: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning,

I received a bounce back email from Michael Mirelez and called the tribe's office to confirm Michael is no longer with the tribe. The tribe's office noted that I can forward you the AB 52 notice and email chain below to see who this should be redirected to.

I am following up on my email on April 13, 2022 regarding the UCR STEM AB 52. The University has not heard from the tribe whether the tribe would like to consult on the STEM project.

I have attached the STEM AB 52 notice again for your reference. Please kindly let me know by August 31, 2022 if the tribe would like to consult on this project otherwise I will assume the tribe does not wish to consult.

Thank you so much.

Respectfully,

Stephanie Tang

Campus Environmental Planner

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PLANNING, DESIGN & CONSTRUCTION
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From: Stephanie Tang
Sent: Tuesday, August 16, 2022 9:58 AM
To: mmirelez@tmdci.org
Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning,

I am following up on my email on April 13, 2022 regarding the UCR STEM AB 52. The University has not heard from the tribe whether the tribe would like to consult on the STEM project.

I have attached the STEM AB 52 notice again for your reference. Please kindly let me know by August 31, 2022 if the tribe would like to consult on this project otherwise I will assume the tribe does not wish to consult.

Thank you so much.

Respectfully,

Stephanie Tang
Campus Environmental Planner

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PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 10:53 AM
To: mmirelez@tmdci.org
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

UCR received your request for formal notification of proposed projects within the Torres Martinez Desert Cahuilla Indians Traditional Use Area. The attached letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PLANNING, DESIGN & CONSTRUCTION

1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507

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1223 University Avenue, Suite 240

Riverside, CA 92507

Updated: May 1, 2023

Original Date: April 13, 2022

Altrena Santillanes
Torres Martinez Desert Cahuilla Indians
P.O. Box 1160
Thermal, CA 92274

Transmitted electronically:

Altrena.Santillanes@torresmartinez-nsn.gov

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Altrena:

Please note that updates to the AB 52 notice is provided below in ~~strikeout text~~ and underline text. Additionally, Exhibit 2 has been updated to depict the electrical feeder line upgrade alignment, associated site improvements, existing cell towers, and T-Mobile Cell Tower Relocation Area.

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 7 acres ~~6 acres~~ and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of

proposed projects within the Torres Martinez Desert Cahuilla Indians Traditional Use Area. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are ~~negative. pending response back from the NAHC.~~ If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning

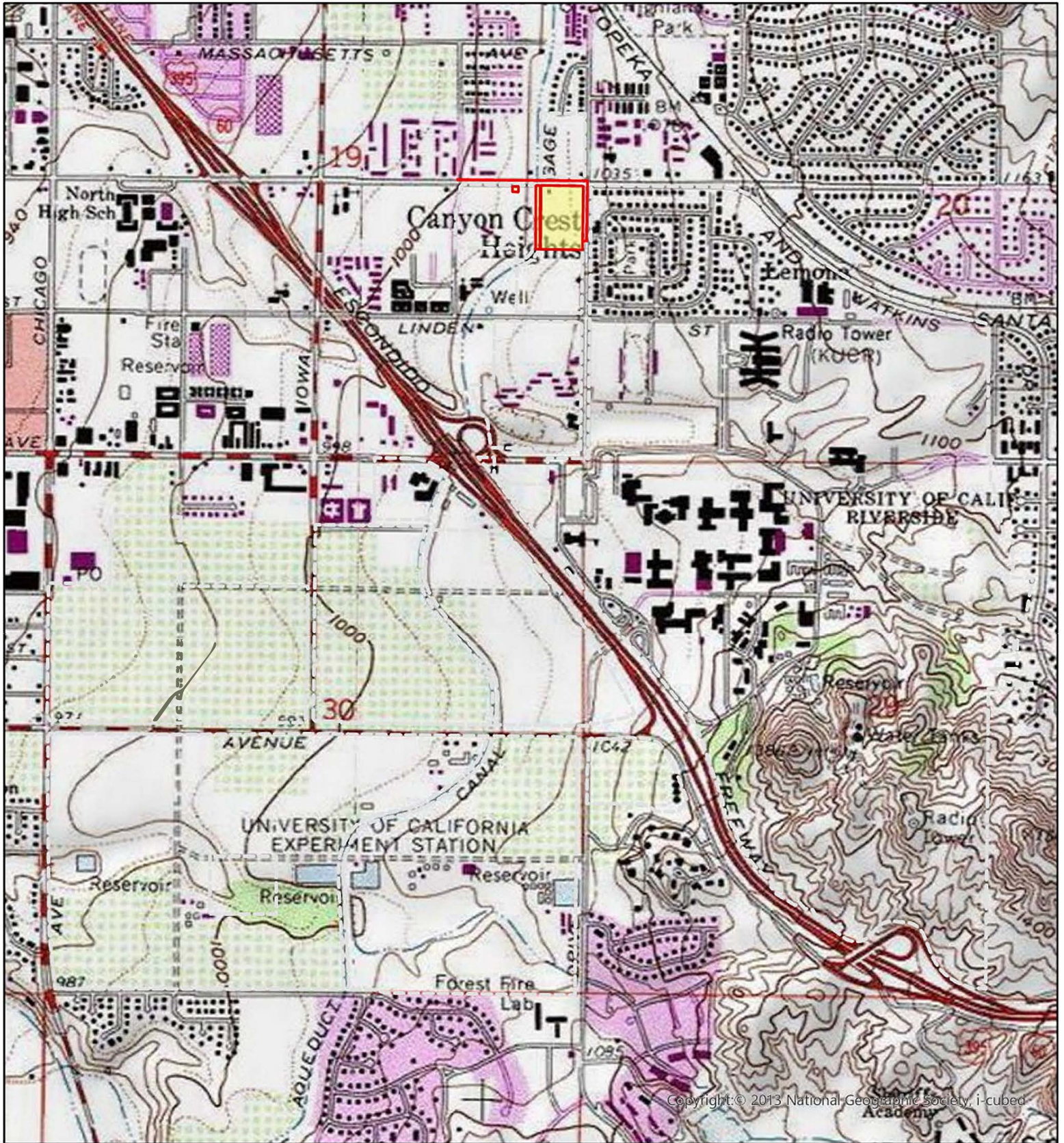


EXHIBIT 1



UCR Campus
 RUSD STEM Education Center Project
 Regional Location

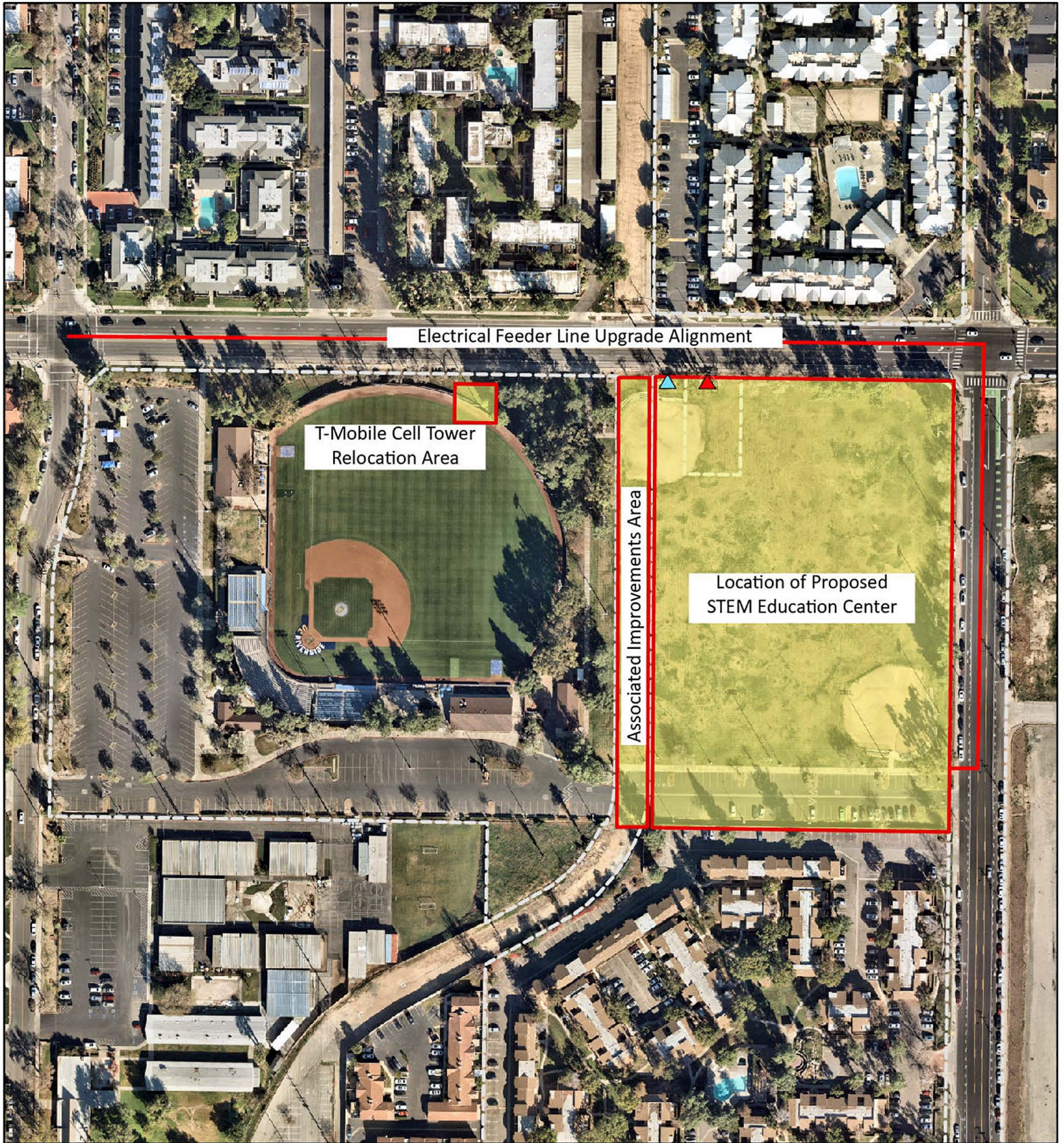
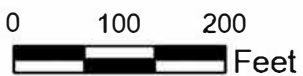


EXHIBIT 2



 Project Site
 UCR Campus Boundary

 Existing Cell Sites



UCR Campus
 RUSD STEM Education Center Project
 Aerial Map

From: Stephanie Tang
Sent: Wednesday, July 19, 2023 3:14 PM
To: Bennae Calac; Abraham Becerra
Cc: TM GResvaloso; TM TTortez; TM ASantillanes; Richie_Lopez; Cultural Committee
Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_TMDCI_5-1-23.pdf

Hi Bennae,

I have not heard back from the Tribe since May 2023 whether there was any feedback on the draft mitigation measures provided in the email chain below. I have attached the AB 52 notice for your reference. Please let me know whether the Tribe would like to set up a zoom meeting (let me know the Tribe's availability) to consult.

Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

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From: Stephanie Tang
Sent: Monday, May 8, 2023 5:05 PM
To: Bennae Calac <nativegrounds@aol.com>
Cc: Abraham Becerra <Abecerra@tmdci.org>; TM GResvaloso <Gary.Resvaloso@torresmartinez-nsn.gov>; TM TTortez <Thomas.Tortez@torresmartinez-nsn.gov>; TM ASantillanes <Altrena.Santillanes@torresmartinez-nsn.gov>; Richie_Lopez <renegades55r@gmail.com>; Cultural Committee <Cultural-Committee@tmtanf.org>
Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Hi Bennae,

I apologize but I do not see an email in my inbox specifically from you last week. Can you resend your email to me? The updated AB 52 notice does note that this project is located on the University of California, Riverside (UCR) campus in the City of Riverside, California. Let me know if there are any other clarification questions. Thank you.

Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

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 Before printing, think about the environment.

From: Bennae Calac <nativegrounds@aol.com>
Sent: Monday, May 8, 2023 4:53 PM
To: Stephanie Tang <stephanie.tang@ucr.edu>
Cc: Abraham Becerra <Abecerra@tmdci.org>; TM GResvaloso <Gary.Resvaloso@torresmartinez-nsn.gov>; TM TTortez

<Thomas.Tortez@torresmartinez-nsn.gov>; TM ASantillanes <Altrena.Santillanes@torresmartinez-nsn.gov>;
Richie_Lopez <renegades55r@gmail.com>; Cultural Committee <Cultural-Committee@tmtnanf.org>

Subject: Re: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Hello Stephanie,

I consulted with Councilman Gary Resevaloso regarding this project. I sent an email last week regarding the location, more so the City it's located in.

I look forward to you comments.

Thank you,

Bennae Calac
Board President
Tribal Advisor/Business Development
(760) 617-2872
Nativegrounds@aol.com

On May 8, 2023, at 4:42 PM, Stephanie Tang <stephanie.tang@ucr.edu> wrote:

Thank you for your email, Abraham. I will be sure to update our AB 52 notification list to direct communications to you and Bennae. I have included all those you have included in your response unless you do prefer just to email just you and Bennae (just let me know the Tribe's preference). I have attached the updated Riverside Unified School District (RUSD) STEM Education Center Project AB 52 notice that was sent to the Tribe on May 1st.

The result of the NAHC SLF is also attached as well as the CHRIS records search in the provided link: https://o365ucr-my.sharepoint.com/:f/g/personal/stephant_ucr_edu/EuMnHKkLaChLj3bQekNpx_oB2n-BBRdo1Qxhpc0ruMAYmg?e=akRntK. The purpose of sending an updated AB 52 notice (attached) and graphic below is to show the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice).

As part of the Draft EIR public review, the cultural resources assessment will be included in the applicable Draft EIR section and/or appendices and be made available during the Draft EIR public review. the draft cultural resources memo that was prepared concluded that no archaeological resources were identified during the field survey. It should be noted that native soils may be encountered at 4 feet and therefore, the following proposed Cultural/TCR mitigation measure(s) is included in the Draft EIR:

1. **Unanticipated Discovery of Archaeological Resources.** If previously undiscovered archaeological resources are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and the find shall be evaluated by a qualified archaeologist meeting the Secretary of the Interior standards to determine whether it is a unique archaeological resource, as defined by CEQA. If the find is not a unique archaeological resource, work may resume. If the find is determined to be a unique archaeological resource, the archaeologist shall make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e.,

avoidance) is the preferred method of mitigation for impacts to archaeological resources. If UCR determines that preservation in place is not feasible, the archaeologist shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.

2. **Unanticipated Discovery of Tribal Cultural Resources.** If previously undiscovered cultural resources of Native American origin are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and a tribal representative shall be given notice and opportunity within 24 hours of discovery to determine in consultation with UCR whether it is a TCR, as defined by CEQA. If the find is not a TCR, work may resume. If the find is determined to be a TCR, the tribal representative shall be given the opportunity to make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to TCRs. If UCR determines that preservation in place is not feasible, UCR shall design and implement a treatment plan in consultation with local Native American group(s) and, if applicable, a qualified archaeologist; prepare a report; and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.
3. **Tribal Cultural Resources Monitoring and Construction Worker Training.** UCR shall give notice and opportunity to a locally affiliated Tribe to provide a qualified Native American monitor to observe all ground-disturbing activities within native soils on the project site (i.e., those soils encountered at greater than four feet in depth). Notice shall be given no less than five (5) days prior to commencement of ground-disturbing activities within areas known or expected to contain native soils. The on-site monitoring shall end when project-related ground disturbing activities within native soils are completed, or, in consultation with the lead agency and Tribe(s) as appropriate and based on observed conditions, monitoring may be reduced or eliminated prior to completion of ground-disturbing activities, when the monitor(s) has indicated that the project site has a low potential to encounter tribal cultural resources. Consolidated monitoring efforts (e.g., tribal cultural and paleontological monitoring) may occur if the individual monitor meets the applicable qualifications. The Native American monitor shall also be given notice and opportunity to provide preconstruction training for all earthmoving construction personnel prior to the start of any ground disturbing activities. The training shall include instruction on how to recognize the types of tribal cultural resources that may be encountered, and appropriate actions to be taken by the construction personnel in the event of an unanticipated discovery of a tribal cultural resource. The Native American monitor shall also be given the opportunity to provide a fact sheet conveying this information for distribution to all contractors, their employees, and other personnel involved with construction of the project. All employees shall sign a form provided by the Native American monitor documenting they attended the worker training and understand the information presented. If new construction personnel are added to the project, the crew foreman shall ensure the new personnel receive the worker training fact sheet before starting work. The UCR Planning, Design & Construction Project Manager/contractor shall retain documentation showing when training of personnel was completed.

I look forward to consulting with the Tribe once you have reviewed the attachments and email. Let me know if May 10th at 10AM would still be ok to consult with the Tribe.

<image001.jpg>

Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

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 Before printing, think about the environment.

From: Abraham Becerra <Abecerra@tmdci.org>
Sent: Monday, May 8, 2023 4:26 PM
To: Stephanie Tang <stephanie.tang@ucr.edu>; TM GResvaloso <Gary.Resvaloso@torresmartinez-nsn.gov>; Bennae Calac <nativegrounds@aol.com>
Cc: TM TTortez <Thomas.Tortez@torresmartinez-nsn.gov>; TM ASantillanes <Altrena.Santillanes@torresmartinez-nsn.gov>; Richie_Lopez <renegades55r@gmail.com>; Cultural Committee <Cultural-Committee@tmtanf.org>
Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good afternoon Ms. Tang,

I am the new Cultural Resources Coordinator for Torres Martinez. All Ab52 and related notifications can now be directed my way, along with Bennae Calac of Native Grounds nativegrounds@aol.com , our Cultural Resource Management Consultant.

Please reattach the Ab52 notice so we can be up to date on this project, along with any Archeological and Cultural surveys.

Thank you,

Abraham Becerra
Cultural Resources Coordinator
Torres Martinez Desert Cahuilla
Office:760-397-0300 Ext. 15485
Abecerra@tmdci.org

From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Monday, May 8, 2023 3:10 PM
To: TM GResvaloso <Gary.Resvaloso@torresmartinez-nsn.gov>; Abraham Becerra <Abecerra@tmdci.org>; Bennae Calac <nativegrounds@aol.com>
Cc: TM TTortez <Thomas.Tortez@torresmartinez-nsn.gov>; TM ASantillanes <Altrena.Santillanes@torresmartinez-nsn.gov>; Richie_Lopez <renegades55r@gmail.com>; Cultural Committee <Cultural-Committee@tmtanf.org>
Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good afternoon,

Does May 10th at 10am still work for me to participate via zoom? If so, could you send me the zoom information when you get a chance? Thank you.

Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

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 Before printing, think about the environment.

From: TM GResvaloso <Gary.Resvaloso@torresmartinez-nsn.gov>
Sent: Tuesday, May 2, 2023 11:50 AM
To: Abraham Becerra <Abecerra@tmdci.org>; Bennae Calac <nativegrounds@aol.com>
Cc: TM GResvaloso <Gary.Resvaloso@torresmartinez-nsn.gov>; TM TTortez <Thomas.Tortez@torresmartinez-nsn.gov>; Stephanie Tang <stephanie.tang@ucr.edu>; TM ASantillanes <Altrena.Santillanes@torresmartinez-nsn.gov>; Richie_Lopez <renegades55r@gmail.com>; Cultural Committee <Cultural-Committee@tmtanf.org>
Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Please see email below

Respectfully ,
Gary Wayne Resvaloso Jr
Torres Martinez Tribal Council Member

office: [760.397.0300](tel:760.397.0300)
cell: [760.777.0365](tel:760.777.0365)
fax: [760.397.8146](tel:760.397.8146)

Gary.Resvaloso@torresmartinez-nsn.gov

Torres Martinez
Desert Cahuilla Indians
PO Box 1160 Thermal, CA 92274

*Faith is taking the first step even when you don't see the whole staircase.
Martin Luther King, Jr.*

----- Original message -----

From: TM ASantillanes <Altrena.Santillanes@torresmartinez-nsn.gov>

Date: 5/2/23 11:43 AM (GMT-08:00)

To: Stephanie Tang <stephanie.tang@ucr.edu>

Cc: TM GResvaloso <Gary.Resvaloso@torresmartinez-nsn.gov>, TM TTortez <Thomas.Tortez@torresmartinez-nsn.gov>

Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good Morning Ms. Tang,

We have a Cultural Committee and our Tribal Councilmember Gary Resvaloso serves on the Cultural Committee and Tribal Council, along with Chairman Tortez. Here are upcoming Tribal Council meetings on May 10th at 10am and May 24th at 3pm. We do a hybrid Tribal Council meeting in person and Zoom, please let me know which date you prefer and if you prefer Zoom or in person. Should you prefer Zoom I will send you a Zoom invite. Depending on Councilman Resvaloso's direction you may have to meet with the Cultural Committee first before coming to Tribal Council. I have included both Chairman Tortez and Councilman Resvaloso on this email.

Respectfully,

Altrena (Tweety) Santillanes
Tribal Council Secretary
Torres Martinez Desert Cahuilla Indians
66725 Martinez Road, Thermal, CA 92274
Cell 760.218.2774
Office 760.397.0300 Ext. 12050
Fax 760.397.8146

From: Stephanie Tang <stephanie.tang@ucr.edu>

Sent: Monday, May 1, 2023 2:38 PM

To: TM ASantillanes <Altrena.Santillanes@torresmartinez-nsn.gov>

Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi Altrena,

I wanted to provide an AB 52 notice update re: the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. I have not heard from the Tribe since my last email correspondence August 2022. The purpose of this email is to provide an updated AB 52 notice (attached) and graphic below that shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice).

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If**

you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.

<image001.jpg>

Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

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From: Stephanie Tang

Sent: Tuesday, August 16, 2022 10:09 AM

To: Altrena.Santillanes@torresmartinez-nsn.gov

Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Hi Altrena,

Apologies, I wanted to also note if you could kindly confirm receipt of this email.

Thank you.

Respectfully,

Stephanie Tang

Campus Environmental Planner

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From: Stephanie Tang

Sent: Tuesday, August 16, 2022 10:06 AM

To: Altrena.Santillanes@torresmartinez-nsn.gov

Subject: FW: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning,

I received a bounce back email from Michael Mirelez and called the tribe's office to confirm Michael is no longer with the tribe. The tribe's office noted that I can forward you the AB 52 notice and email chain below to see who this should be redirected to.

I am following up on my email on April 13, 2022 regarding the UCR STEM AB 52. The University has not heard from the tribe whether the tribe would like to consult on the STEM project.

I have attached the STEM AB 52 notice again for your reference. Please kindly let me know by August 31, 2022 if the tribe would like to consult on this project otherwise I will assume the tribe does not wish to consult.

Thank you so much.

Respectfully,

Stephanie Tang

Campus Environmental Planner

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From: Stephanie Tang

Sent: Tuesday, August 16, 2022 9:58 AM

To: mmirelez@tmdci.org

Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning,

I am following up on my email on April 13, 2022 regarding the UCR STEM AB 52. The University has not heard from the tribe whether the tribe would like to consult on the STEM project.

I have attached the STEM AB 52 notice again for your reference. Please kindly let me know by August 31, 2022 if the tribe would like to consult on this project otherwise I will assume the tribe does not wish to consult.

Thank you so much.

Respectfully,

Stephanie Tang

Campus Environmental Planner

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From: Stephanie Tang

Sent: Wednesday, April 13, 2022 10:53 AM

To: mmirelez@tmdci.org

Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex.

The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

UCR received your request for formal notification of proposed projects within the Torres Martinez Desert Cahuilla Indians Traditional Use Area. The attached letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Campus Environmental Planner

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<STEM AB52_NoticeLtr_TMDCI_5-1-23.pdf>

<SLF No RUSD STEM Ed Center Project 4.19.2022.pdf>

From: Stephanie Tang
Sent: Wednesday, April 13, 2022 10:44 AM
To: Jessica Mauck; Ryan.Nordness@sanmanuel-nsn.gov
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus
Attachments: STEM AB52_NoticeLtr_SMBMI_4-13-22.pdf

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

UCR received your request for formal notification of proposed campus projects on the UCR East Campus, which includes the proposed project site. The attached letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang
Campus Environmental Planner
UNIVERSITY OF CALIFORNIA, RIVERSIDE
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Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

April 13, 2022

Jessica Mauck, Director of Cultural Resources Management
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, CA 92346

JMauck@sanmanuel-nsn.gov; Ryan.Nordness@sanmanuel-nsn.gov

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Ms. Mauck:

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 6 acres and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of proposed campus projects on East Campus, which includes the proposed project site. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are pending response back from the NAHC. If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to

consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

Stephanie Tang
Campus Environmental Planner
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

A handwritten signature in cursive script that reads "Stephanie Tang".

Stephanie Tang
Campus Environmental Planner

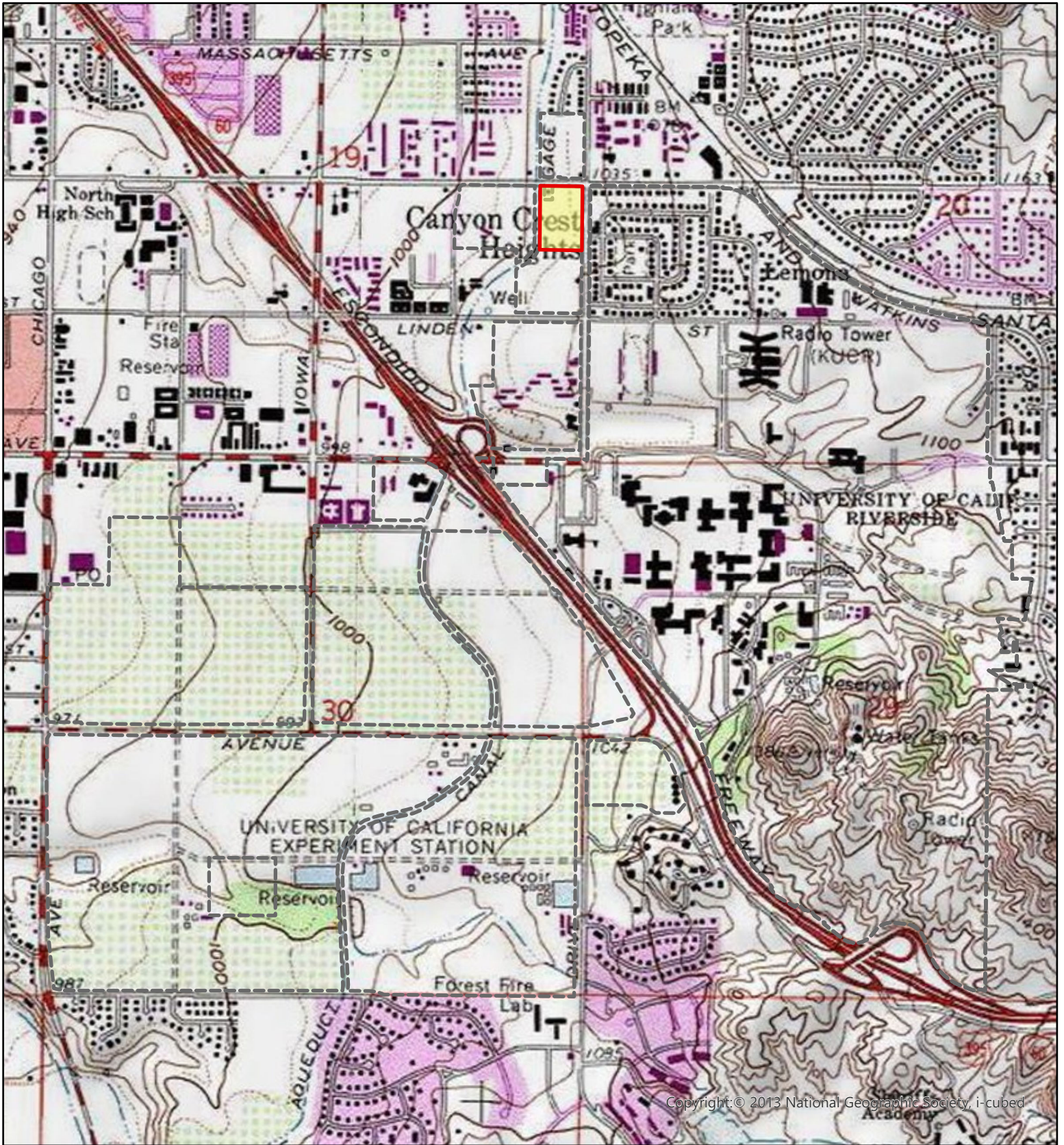
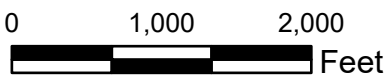


EXHIBIT 1



UCR Campus
 RUSD STEM Education Center Project
 Regional Location



Blaine Street

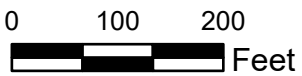
Canyon Crest Drive

EXHIBIT 2



Project Site

UCR Campus Boundary



UCR Campus
RUSD STEM Education Center Project
Aerial Map

From: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Sent: Thursday, April 14, 2022 1:27 PM
To: Stephanie Tang
Subject: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Hello Stephanie,

Thank you for contacting the San Manuel Band of Mission Indians (SMBMI) regarding the above referenced project. SMBMI appreciates the opportunity to review the project documentation, which was received by our Cultural Resources Management Department on Wednesday April 14th, 2022, pursuant to CEQA (as amended, 2015) and CA PRC 21080.3.1. The proposed project area exists within Serrano ancestral territory and, therefore, is of interest to the Tribe. However, due to the nature and location of the proposed project, and given the CRM Department's present state of knowledge, SMBMI does not have any concerns with the project's implementation, as planned, at this time. As a result, SMBMI requests that the following language be made a part of the project/permit/plan conditions:

CUL MMs

1. In the event that cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period. Additionally, the San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed within TCR-1, regarding any pre-contact and/or historic-era finds and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment.
2. If significant pre-contact and/or historic-era cultural resources, as defined by CEQA (as amended, 2015), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to SMBMI for review and comment, as detailed within TCR-1. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly.
3. If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project.

TCR MMs

1. The San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed in CR-1, of any pre-contact and/or historic-era cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with SMBMI, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents SMBMI for the remainder of the project, should SMBMI elect to place a monitor on-site.
2. Any and all archaeological/cultural documents created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Lead Agency for dissemination to SMBMI. The Lead Agency and/or applicant shall, in good faith, consult with SMBMI throughout the life of the project.

Note: San Manuel Band of Mission Indians realizes that there may be additional tribes claiming cultural affiliation to the area; however, San Manuel Band of Mission Indians can only speak for itself. The Tribe has no objection if the agency, developer, and/or archaeologist wishes to consult with other tribes in addition to SMBMI and if the Lead Agency wishes to revise the conditions to recognize additional tribes.

Please provide the final copy of the project/permit/plan conditions so that SMBMI may review the included language. This communication concludes SMBMI's input on this project, at this time, and no additional consultation pursuant to CEQA is required unless there is an unanticipated discovery of cultural resources during project implementation. If you should have any further questions with regard to this matter, please do not hesitate to contact me at your convenience, as I will be your Point of Contact (POC) for SMBMI with respect to this project.

Respectfully,
Ryan Nordness

From: Stephanie Tang <stephanie.tang@ucr.edu>
Sent: Wednesday, April 13, 2022 10:44 AM
To: Jessica Mauck <Jessica.Mauck@SanManuel-NSN.Gov>; Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Subject: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning,

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center, proposed project) on the UCR campus. The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

UCR received your request for formal notification of proposed campus projects on the UCR East Campus, which includes the proposed project site. The attached letter is intended as formal notification of the proposed project pursuant to AB 52.

Please let me know if you have any questions, would like a hard copy of the attached letter, or would like to initiate consultation. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang
Campus Environmental Planner
UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

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toolbar.

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From: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Sent: Tuesday, May 10, 2022 4:58 PM
To: Stephanie Tang
Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside

Hello Stephanie,

Thank you for contacting the Yuhaaviatam of San Manuel Nation (formerly known as the San Manuel Band of Mission Indians) regarding the above referenced project. YSMN appreciates the opportunity to review the project documentation, which was received by our Cultural Resources Management Department on April 13th, pursuant to CEQA (as amended, 2015) and CA PRC 21080.3.1. The proposed project area exists within Serrano ancestral territory and, therefore, is of interest to the Tribe. However, due to the nature and location of the proposed project, and given the CRM Department's present state of knowledge, YSMN does not have any concerns with the project's implementation, as planned, at this time. As a result, YSMN requests that the following language be made a part of the project/permit/plan conditions:

CUL MMs

1. In the event that cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period. Additionally, the Yuhaaviatam of San Manuel Nation Cultural Resources Department (YSMN) shall be contacted, as detailed within TCR-1, regarding any pre-contact and/or historic-era finds and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment.
2. If significant pre-contact and/or historic-era cultural resources, as defined by CEQA (as amended, 2015), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to YSMN for review and comment, as detailed within TCR-1. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly.
3. If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project.

TCR MMs

1. The Yuhaaviatam of San Manuel Nation Cultural Resources Department (YSMN) shall be contacted, as detailed in CR-1, of any pre-contact and/or historic-era cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with YSMN, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents YSMN for the remainder of the project, should YSMN elect to place a monitor on-site.
2. Any and all archaeological/cultural documents created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Lead Agency for dissemination to YSMN. The Lead Agency and/or applicant shall, in good faith, consult with YSMN throughout the life of the project.

Note: Yuhaaviatam of San Manuel Nation realizes that there may be additional tribes claiming cultural affiliation to the area; however, Yuhaaviatam of San Manuel Nation can only speak for itself. The Tribe has no objection if the agency, developer, and/or archaeologist wishes to consult with other tribes in addition to YSMN and if the Lead Agency wishes to revise the conditions to recognize additional tribes.

Please provide the final copy of the project/permit/plan conditions so that YSMN may review the included language. This communication concludes YSMN's input on this project, at this time, and no additional consultation pursuant to CEQA is required unless there is an unanticipated discovery of cultural resources during project implementation. If you should have any further questions with regard to this matter, please do not hesitate to contact me at your convenience, as I will be your Point of Contact (POC) for YSMN with respect to this project.

Respectfully,
Ryan Nordness

Ryan Nordness

Cultural Resource Analyst

Ryan.Nordness@sanmanuel-nsn.gov

O:(909) 864-8933 Ext 50-2022

M:(909) 838-4053

26569 Community Center Dr Highland, California 92346



From: Stephanie Tang
Sent: Tuesday, August 16, 2022 10:24 AM
To: Ryan Nordness
Subject: RE: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside
Attachments: RE: AB 52 Consultation - RUSD STEM Education Center on UCR Campus

Good morning Ryan,

Thank you for your email in response to UCR's STEM's AB 52 notice. There were two emails sent (one dated April 14, 2022 and the other dated May 10, 2022 noting the tribe's updated contact: Yuhaaviatam of San Manuel Nation. UCR appreciates the tribe's review and feedback on this project.

UCR prepared a Long Range Development Plan (LRDP) and an associated EIR which was certified November 2021. The mitigation measures for Cultural Resources/TCRs from the LRDP EIR is noted below and will be included as applicable in the STEM Cultural/TCR EIR sections (still in progress).

MM CUL-2 Tribal Cultural Resources/Archaeological Monitoring. Prior to commencement of ground disturbing activities into an area with a medium or high potential to encounter undisturbed native soils including Holocene alluvium soils, as determined by UCR, UCR shall hire a qualified archaeological monitor meeting the Secretary of the Interior's Professional Qualification Standards for archaeology (National Park Service 1983) to identify archaeological resources and cultural resources of potential Native American origin. Where development occurs in the southeastern quadrant of campus, and in areas containing Val Verde Pluton geologic features considered highly sensitive to prehistoric archaeological resources, UCR shall hire a qualified archaeologist and a Native American monitor to reduce impacts to potential archaeological and/or tribal cultural resources. The monitor(s) shall be on-site during any construction activities that involve ground disturbance. The onsite monitoring shall end when project-related ground disturbing activities are completed, or, in consultation with the lead agency and tribes as appropriate and based on observed conditions, monitoring may be reduced or eliminated prior to completion of ground-disturbing activities, when the monitor(s) has indicated that the project site has a low potential to encounter tribal cultural resources (TCR)/archaeological resources. Consolidated monitoring efforts (e.g., archaeological monitoring/tribal cultural/paleontological monitoring) may occur if the individual monitor meets the applicable qualifications, except for development in the southeastern quadrant as detailed above.

MM CUL-3 Construction Worker Training. For projects requiring TCR/archaeological monitoring, the monitor shall provide preconstruction training for all earthmoving construction personnel prior to the start of any ground disturbing activities, regarding how to recognize the types of TCRs and/or archaeological resources that may be encountered and to instruct personnel about actions to be taken in the event of a discovery. UCR Planning, Design & Construction Project Manager/contractor shall retain documentation showing when training of personnel was completed.

MM CUL-4 Unanticipated Discovery of Tribal Cultural Resources/Archaeological Resources. If previously undiscovered TCRs and/or archaeological resources are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and the find shall be evaluated by a qualified archaeologist meeting the Secretary of the Interior standards to determine whether it is a unique archaeological resource, as defined by CEQA. If the discovery appears to be Native American in origin, a tribal representative will be contacted within 24 hours of discovery to determine whether it is a TCR, as defined by CEQA. If the find is neither a unique archaeological resource nor a TCR, work may resume. If the find is determined to be a unique archaeological resource or TCR, the archaeologist and the tribal representative, as appropriate, shall make recommendations to UCR Planning, Design & Construction staff on the measures that will be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to

CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to TCRs/archaeological resources. If UCR determines that preservation in place is not feasible, the archaeologist shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.

In regards to human remains: California law recognizes the need to protect Native American human burials, skeletal remains, and items associated with Native American burials from vandalism and inadvertent destruction. The procedures for the treatment of Native American human remains are contained in California Health and Safety Code Sections 7050.5 and 7052 and California PRC Section 5097. If human remains are discovered during any construction activities, potentially damaging ground-disturbing activities in the area of the remains and a 100-foot-buffer area shall be halted immediately, and UCR shall notify the Riverside County Coroner and the NAHC immediately, according to PRC Section 5097.98 and Section 7050.5 of California's Health and Safety Code. If the remains are determined by the NAHC to be Native American, the guidelines of the NAHC shall be adhered to in the treatment and disposition of the remains. Following the Coroner's findings, UCR and the NAHC-designated most likely descendant shall recommend the ultimate treatment and disposition of the remains and take appropriate steps to ensure that additional human interments are not disturbed. The responsibilities for acting upon notification of a discovery of Native American human remains are identified in California PRC Section 5097.94. Compliance with California Health and Safety Code Sections 7050.5 and 7052 and California PRC Section 5097 would provide an opportunity to avoid or minimize the disturbance of human remains, and to appropriately treat any remains that are discovered. This discussion would be included in the Cultural Resources section.

Please review and let me know if you have any questions or would like to discuss further.

Thank you in advance for your review and have a good day!

Respectfully,

Stephanie Tang

Campus Environmental Planner

UNIVERSITY OF CALIFORNIA, RIVERSIDE
PLANNING, DESIGN & CONSTRUCTION
1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
951.827.1484 | <https://cpp.ucr.edu/>

From: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Sent: Tuesday, May 10, 2022 4:58 PM
To: Stephanie Tang <stephanie.tang@ucr.edu>
Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside

Hello Stephanie,

Thank you for contacting the Yuhaaviatam of San Manuel Nation (formerly known as the San Manuel Band of Mission Indians) regarding the above referenced project. YSMN appreciates the opportunity to review the project documentation, which was received by our Cultural Resources Management Department on April 13th, pursuant to CEQA (as amended, 2015) and CA PRC 21080.3.1. The proposed project area exists within Serrano ancestral territory and, therefore, is of interest to the Tribe. However, due to the nature and location of the proposed project, and given the CRM Department's present state of knowledge, YSMN does not have any concerns with the project's implementation, as planned, at this time. As a result, YSMN requests that the following language be made a part of the project/permit/plan conditions:

CUL MMs

1. In the event that cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period. Additionally, the Yuhaaviatam of San Manuel Nation Cultural Resources Department (YSMN) shall be contacted, as detailed within TCR-1, regarding any pre-contact and/or historic-era finds and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment.
2. If significant pre-contact and/or historic-era cultural resources, as defined by CEQA (as amended, 2015), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to YSMN for review and comment, as detailed within TCR-1. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly.
3. If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project.

TCR MMs

1. The Yuhaaviatam of San Manuel Nation Cultural Resources Department (YSMN) shall be contacted, as detailed in CR-1, of any pre-contact and/or historic-era cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with YSMN, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents YSMN for the remainder of the project, should YSMN elect to place a monitor on-site.
2. Any and all archaeological/cultural documents created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Lead Agency for dissemination to YSMN. The Lead Agency and/or applicant shall, in good faith, consult with YSMN throughout the life of the project.

Note: Yuhaaviatam of San Manuel Nation realizes that there may be additional tribes claiming cultural affiliation to the area; however, Yuhaaviatam of San Manuel Nation can only speak for itself. The Tribe has no objection if the agency, developer, and/or archaeologist wishes to consult with other tribes in addition to YSMN and if the Lead Agency wishes to revise the conditions to recognize additional tribes.

Please provide the final copy of the project/permit/plan conditions so that YSMN may review the included language. This communication concludes YSMN's input on this project, at this time, and no additional consultation pursuant to CEQA is required unless there is an unanticipated discovery of cultural resources during project implementation. If you should have any further questions with regard to this matter, please do not hesitate to contact me at your convenience, as I will be your Point of Contact (POC) for YSMN with respect to this project.

Respectfully,
Ryan Nordness

Ryan Nordness

Cultural Resource Analyst

Ryan.Nordness@sanmanuel-nsn.gov

O:(909) 864-8933 Ext 50-2022

M:(909) 838-4053

26569 Community Center Dr Highland, California 92346





Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92507

Updated: May 1, 2023

Original Date: April 13, 2022

Jessica Mauck, Director of Cultural Resources Management
Yuhaaviatam of San Manuel Nation (formerly San Manuel Band of Mission Indians)
26569 Community Center Drive
Highland, CA 92346

Transmitted electronically:

JMauck@sanmanuel-nsn.gov; Ryan.Nordness@sanmanuel-nsn.gov

Subject: Assembly Bill 52 (AB 52) Consultation (Public Resources Code §21080.3.1) – Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center (STEM Ed Center), Riverside County, California

Dear Ms. Mauck:

Please note that updates to the AB 52 notice is provided below in ~~strikeout text~~ and underline text. Additionally, Exhibit 2 has been updated to depict the electrical feeder line upgrade alignment, associated site improvements, existing cell towers, and T-Mobile Cell Tower Relocation Area.

The University of California, Riverside (UCR) is the lead agency, pursuant to the California Environmental Quality Act (CEQA), for the proposed Riverside Unified School District (RUSD) Science, Technology, Engineering, and Mathematics Education Center Project (referred to as STEM Ed Center or proposed project) in the northeastern portion of the UCR campus, in the City of Riverside, Riverside County, California. The project site is approximately 7 acres ~~6 acres~~ and is located within an urbanized area on the southwest corner of the intersection of Blaine Street and Canyon Crest Drive, adjacent to the UCR Baseball Complex. The project site is located within portions of Section 19 (Township 2 South; Range 4 West) of the USGS Riverside East, CA 7.5 Minute Quadrangle (refer to Exhibit 1 and Exhibit 2, attached).

The project site is currently developed with open recreational field with two baseball diamonds. Two cellular network towers currently leased to Sprint and T-Mobile are located in the northwest corner of the project site. The Sprint cell tower would be decommissioned and removed from the site. The T-Mobile cell tower would be removed from the project site and relocated to the northern portion of the adjacent UCR Baseball Complex. The existing open recreational fields (two baseball diamonds) would be removed with the construction of the proposed STEM Ed Center and associated site improvements.

Assembly Bill 52 (AB 52) requires lead agencies to consult with California Native American Tribes that request such consultation in writing for any project for which a Notice of Preparation (NOP) of an Environmental Impact Report (EIR), or notice of a Mitigated Negative Declaration (MND) or Negative Declaration (ND) is filed on or after July 1, 2015. UCR received your request for formal notification of

proposed campus projects on East Campus, which includes the proposed project site. This letter is intended as formal notification of the proposed project pursuant to AB 52.

Your participation in this local planning process is important. The Sacred Lands File Search (SLF) was submitted to the Native American Heritage Commission (NAHC) for the proposed project and results are ~~negative. pending response back from the NAHC.~~ If you possess any information or knowledge regarding Native American Sacred Lands or other tribal cultural resources in and around the project site, and wish to consult with UCR regarding these resources or mitigation measures to reduce impacts of the proposed project, please direct your email to stephanie.tang@ucr.edu or any correspondence on this matter to:

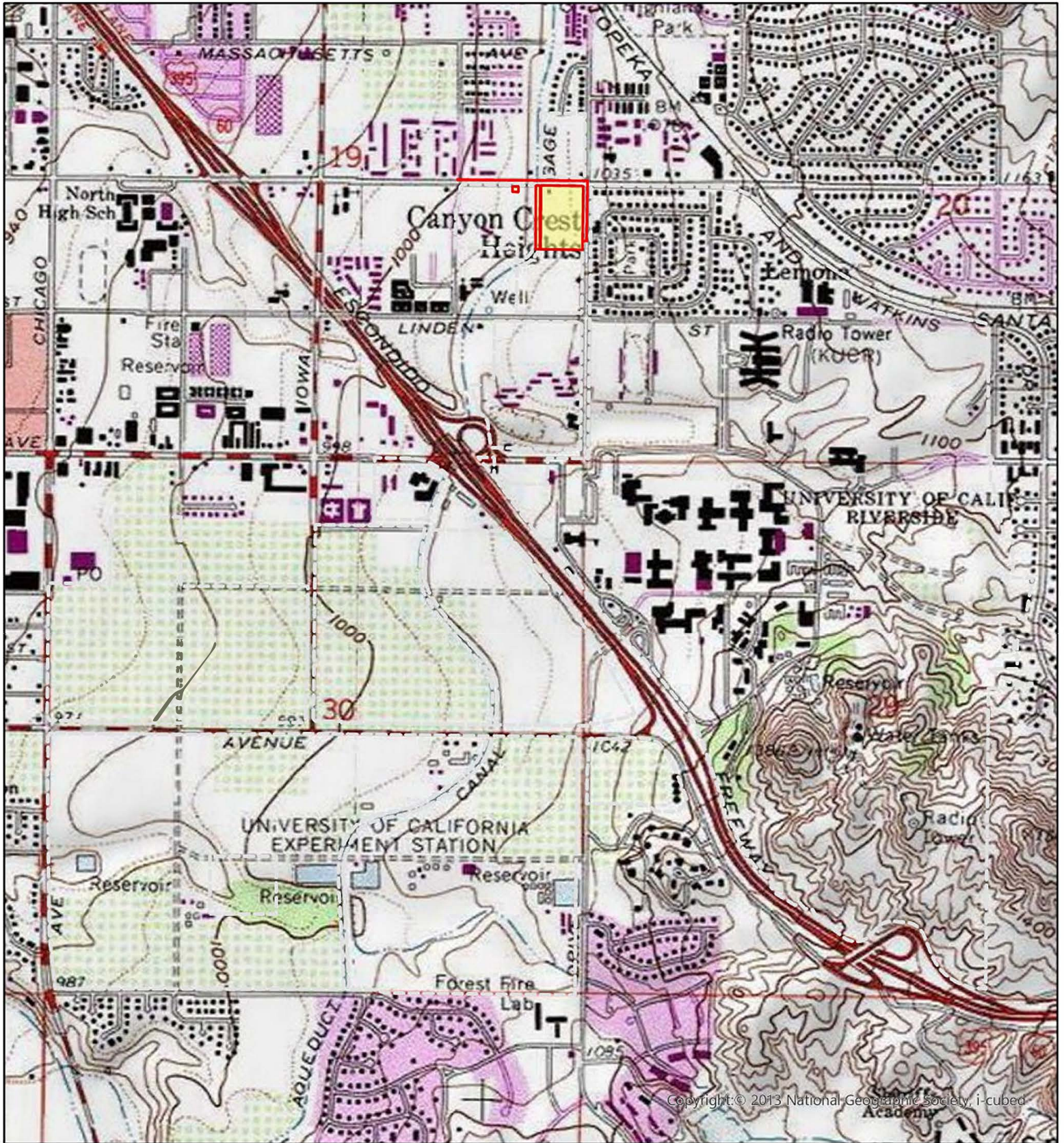
Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning
University of California, Riverside
Planning, Design & Construction
1223 University Avenue, Suite 240
Riverside, CA 92507

Please let me know if you have any questions or would like to discuss this proposed project. I can be reached by phone at (951) 827-1484. Thank you for your interest on projects at UCR.

Respectfully,

Stephanie Tang

Stephanie Tang
~~Campus Environmental Planner~~
Assistant Director of Campus Planning

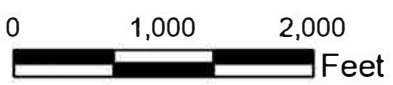


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EXHIBIT 1



 Project Site
 UCR Campus Boundary



UCR Campus
 RUSD STEM Education Center Project
 Regional Location

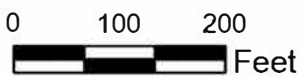


EXHIBIT 2



 Project Site
 UCR Campus Boundary

 Existing Cell Sites



UCR Campus
 RUSD STEM Education Center Project
 Aerial Map

From: Stephanie Tang
Sent: Monday, May 1, 2023 2:29 PM
To: 'Ryan Nordness'; 'JMauck@sanmanuel-nsn.gov'
Subject: RUSD STEM Center at UCR - AB 52 Consultation
Attachments: STEM AB52_Updated NoticeLtr_Yuhaaviatam of San Manuel Nation_5-1-23.pdf

Good morning Ryan,

It's been a while and hope everything has been going well on your end. I wanted to provide an AB 52 notice update re: the Riverside Unified School District (RUSD) STEM Education Center Project on UCR Campus. The below graphic shows the project site more clearly with the location of the proposed STEM Education Center, T-Mobile Cell Tower Relocation Area, Electrical Feeder Line Upgrade Alignment, and associated improvements area (where the underground Gage Canal is located) (also included as Exhibit 2 in the attached updated AB 52 notice). Additionally, the below text includes the Draft EIR Cultural/TCR mitigation measures for the proposed project:

- **Unanticipated Discovery of Archaeological Resources.** If previously undiscovered archaeological resources are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and the find shall be evaluated by a qualified archaeologist meeting the Secretary of the Interior standards to determine whether it is a unique archaeological resource, as defined by CEQA. If the find is not a unique archaeological resource, work may resume. If the find is determined to be a unique archaeological resource, the archaeologist shall make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to archaeological resources. If UCR determines that preservation in place is not feasible, the archaeologist shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.
- **Unanticipated Discovery of Tribal Cultural Resources.** If previously undiscovered cultural resources of Native American origin are identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR Planning, Design & Construction staff shall be notified, and a tribal representative shall be given notice and opportunity within 24 hours of discovery to determine in consultation with UCR whether it is a TCR, as defined by CEQA. If the find is not a TCR, work may resume. If the find is determined to be a TCR, the tribal representative shall be given the opportunity to make recommendations to UCR Planning, Design & Construction staff on the measures that shall be implemented, including, but not limited to, preservation in place, excavation, relocation, and further evaluation of the discoveries pursuant to CEQA. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to TCRs. If UCR determines that preservation in place is not feasible, UCR shall design and implement a treatment plan in consultation with local Native American group(s) and, if applicable, a qualified archaeologist; prepare a report; and salvage the material, as appropriate. Any important

artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on-site may commence upon completion of any fieldwork components of the treatment plan.

- **Tribal Cultural Resources Monitoring and Construction Worker Training.** UCR shall give notice and opportunity to a locally affiliated Tribe to provide a qualified Native American monitor to observe all ground-disturbing activities within native soils on the project site (i.e., those soils encountered at greater than four feet in depth). Notice shall be given no less than five (5) days prior to commencement of ground-disturbing activities within areas known or expected to contain native soils. The on-site monitoring shall end when project-related ground disturbing activities within native soils are completed, or, in consultation with the lead agency and Tribe(s) as appropriate and based on observed conditions, monitoring may be reduced or eliminated prior to completion of ground-disturbing activities, when the monitor(s) has indicated that the project site has a low potential to encounter tribal cultural resources. Consolidated monitoring efforts (e.g., tribal cultural and paleontological monitoring) may occur if the individual monitor meets the applicable qualifications. The Native American monitor shall also be given notice and opportunity to provide preconstruction training for all earthmoving construction personnel prior to the start of any ground disturbing activities. The training shall include instruction on how to recognize the types of tribal cultural resources that may be encountered, and appropriate actions to be taken by the construction personnel in the event of an unanticipated discovery of a tribal cultural resource. The Native American monitor shall also be given the opportunity to provide a fact sheet conveying this information for distribution to all contractors, their employees, and other personnel involved with construction of the project. All employees shall sign a form provided by the Native American monitor documenting they attended the worker training and understand the information presented. If new construction personnel are added to the project, the crew foreman shall ensure the new personnel receive the worker training fact sheet before starting work. The UCR Planning, Design & Construction Project Manager/contractor shall retain documentation showing when training of personnel was completed.

Please let me know if you have additional questions or would like to set up a zoom meeting to go over the above and attachments by **May 31, 2023**, or we would assume AB 52 has concluded. **If you would like to set up a zoom meeting, please let me know what dates/times the Tribe would be available to consult.**



Respectfully,

Stephanie Tang

Assistant Director of Campus Planning

UNIVERSITY OF CALIFORNIA, RIVERSIDE
 PLANNING, DESIGN & CONSTRUCTION
 1223 UNIVERSITY AVE | SUITE 240 | RIVERSIDE CA 92507
 951.827.1484 | <https://cpp.ucr.edu/>

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