


NOTICE OF EXEMPTION

APPENDIX E

To: San Bernardino County Registrar
 -Recorder/County Clerk
 201 North "E" Street, Bldg 201 A
 San Bernardino, CA 92401

From (Public Agency): City of San Bernardino
 290 North D Street
 San Bernardino, CA 92401

Project Title:		1300 East Highland Avenue Self-Storage Project	
Project Location - Specific:		1300 East Highland Avenue, San Bernardino, CA 92404	
Project Location - City:		City of San Bernardino	
Project Location - County:		County of San Bernardino	
Description of Nature, Purpose, and Beneficiaries of Project:			
Nature:		The Project is a self-storage facility.	
Purpose:		The Project proposes to demolish all onsite improvements and in their place construct an approximately 92,110-square foot self-storage facility; see attached CEQA Compliance Technical Memorandum (TM).	
Beneficiaries:		Upon completion, the Project will meet the surrounding community's need for self-storage, which is currently lacking. The community is underserved and undersupplied for self-storage.	
Name of Public Agency Approving Project:		City of San Bernardino	
Name of Person or Agency Carrying Out Project:		Tim Karp, InSite Property Group	
Exempt Status (check one):		<i>Pursuant to California Environmental Quality Act (CEQA) Statute and Guidelines</i>	
<input type="checkbox"/>	Ministerial (§21080(b)(1); §15268);		
<input type="checkbox"/>	Declared Emergency (§21080(b)(3); §152269(a));		
<input type="checkbox"/>	Emergency Project (§21080(b)(4); §15269(b)(c));		
<input checked="" type="checkbox"/>	Categorical Exemption (CE). Type and Section:		Class 32: §15332, <i>Infill Development</i>
<input type="checkbox"/>	Statutory Exemption. Code Number:		
Reasons Why Project is Exempt: The proposed Project has been determined to not have a significant effect on the environment and, therefore, is found to be exempt from CEQA under a Class 32 CE; see attached CEQA Compliance TM. The proposed building expansion is consistent with the City's General Plan and Development Code. The Project would occur within City limits on no more than 5.0 acres, and is substantially surrounded by urban uses. The Project site was previously improved and has no value as habitat to rare, endangered, or threatened species. Project approval would not result in any significant effects relating to traffic, noise, air quality, or water quality. All required utilities and public services can adequately serve the site. Finally, the Project does not meet any of the exceptions that would bar a CE (State CEQA Guidelines §15300.2).			
Lead Agency		Telephone & Extension: 909-384-5930	
Contact Person: Mike Rosales			
If Filed by Applicant:			
1. Attach certified document of exemption finding.		<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. Has a Notice of Exemption been filed by the public agency approving the project?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Signature:		Title:	Date:
		<i>Associate Planner</i>	<i>2/10/22</i>
<input checked="" type="checkbox"/> Signed by Lead Agency		Date received for filing at OPR:	
<input type="checkbox"/> Signed by Applicant			

TECHNICAL MEMORANDUM

To: Mike Rosales, City of San Bernardino
From: Rita Garcia, Project Manager
Date: January 31, 2022
Subject: 1300 East Highland Avenue Self-Storage Project – Revised CEQA Compliance

1.0 INTRODUCTION & PURPOSE

Kimley-Horn and Associates, Inc. has been retained to evaluate the proposed 1300 East Highland Avenue Self-Storage Project (the “Project”) concerning California Environmental Quality Act (CEQA) compliance. This Technical Memorandum (TM) was prepared to present the findings of the CEQA compliance review, as described below. This TM was also prepared to present the recommendations concerning the appropriate CEQA compliance documentation.

The Project’s CEQA compliance review relied on the following documentation:

- Conceptual Site Plan; see **Appendix 1A: Conceptual Site Plan**; and **Appendix 1B: Offsite Street Improvements and Dedication**.
- Rocks Biological Consulting. (January 2022). *Biological Technical Memo for 1300 East Highland*. San Diego, CA; see **Appendix 2: Biological Technical Memo**
- Kimley-Horn. (December 2021). *Secure Space Self-Storage Project Traffic Scope Approval Form*. Orange, CA; see **Appendix 3A: Traffic Scope Approval Form - Approved**.
- Kimley-Horn. (November 2021). *Secure Space Self-Storage Project Trip Generation and Vehicle Miles Travelled Technical Memorandum*. San Diego, CA; see **Appendix 3B: Trip Generation and Vehicle Miles Travelled Assessment** .
- Kimley-Horn. (December 2021). *1300 East Highland Avenue Self-Storage Project – Draft Noise and Vibration Analysis*. Orange, CA; see **Appendix 4: Noise and Vibration Analysis**.
- Kimley-Horn. (December 2021). *1300 East Highland Avenue Self-Storage: Draft Air Quality Analysis*. Orange, CA; see **Appendix 5: Air Quality Analysis**.
- BCR Consulting LLC. (December 2021). *Preliminary Results for a Cultural Resources Assessment of the 1300 East Highland Project, San Bernardino, San Bernardino County, California (BCR Consulting Project No. KIM2124)*. Claremont, CA; see **Appendix 6: Cultural Resource Assessment Preliminary Results**.

- City of San Bernardino Public Works Department. (Updated January 31, 2022). *Conditions of Approval*. City of San Bernardino, CA; see **Appendix 7: Public Works Department Conditions of Approval**.

2.0 STATUTORY AUTHORITY & REQUIREMENTS

State CEQA Guidelines §15061 – Review for Exemption

Once it has determined that an activity is a project subject to CEQA, it is then determined whether the project is exempt from CEQA. Pursuant to State CEQA Guidelines §15061, a project is exempt from CEQA if:

- 1) The project is exempt by statute; see State CEQA Guidelines Article 18, commencing with §15260.
- 2) The project is exempt pursuant to a Categorical Exemption (CE) (see State CEQA Guidelines Article 19, commencing with §15300) and the application of that CE is not barred by one of the exceptions set forth in State CEQA Guidelines §15300.2.
- 3) The activity is covered by the commonsense exemption that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.
- 4) The project will be rejected or disapproved by a public agency.
- 5) The project is exempt pursuant to the provisions of Article 12.5 - Exemptions for Agricultural Housing, Affordable Housing, and Residential Infill Projects.

State CEQA Guidelines Article 19 - Categorical Exemptions (CE)

State CEQA Guidelines Article 19 includes a list of classes of projects, which have been determined not to have a significant effect on the environment and, therefore, are exempt from CEQA. The class of projects that is relevant to the proposed Project is presented below.

State CEQA Guidelines §15332 – Infill Development. Class 32 consists of projects characterized as in-fill development meeting the conditions described below.

- 1) The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with applicable zoning designation and regulations.
- 2) The proposed development occurs within city limits on a project site of no more than five acres substantially surrounded by urban uses.
- 3) The project site has no value as habitat for endangered, rare, or threatened species.

- 4) Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.
- 5) The site can be adequately served by all required utilities and public services.

State CEQA Guidelines §15300.2 - Exceptions. The following conditions are exceptions that bar the application of a CE:

- a) *Location.* Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located -- a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant.
- b) *Cumulative Impact.* All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.
- c) *Significant Effect.* A CE shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.
- d) *Scenic Highways.* A CE shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.
- e) *Hazardous Waste Sites.* A CE shall not be used for a project located on a site which is included on any list compiled pursuant to Government Code §65962.5.
- f) *Historical Resources.* A CE shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.

3.0 PROJECT DESCRIPTION

The approximately 4.23-acre subject property consists of four parcels (i.e., APNs 0150-471-04-0000, 0150-471-05-0000, 0150-471-06-0000, 0150-471-07-0000) situated northeast of the East Highland Avenue at North Golden Avenue intersection, at 1300 East Highland Avenue, City of Highland. The Project site is partially improved with remnants of a burned down restaurant, a small unoccupied building ancillary to the former restaurant, and associated surface parking lots, while the remainder of the Project site is vacant. The surrounding land uses include single-family residential to the north, Highland Avenue and commercial and religious uses to the south, multi-family residential and commercial uses to the east, and commercial uses and vacant lots to the west.

The Project proposes to demolish all existing onsite improvements and in their place construct an approximately 92,110-square foot (SF) self-storage facility(see **Appendix 1A**). Pursuant to City of San Bernardino Public Works Conditions of Approval (COA) (see **Appendix 7**), the Project is required to dedicate property and either construct or pay an in-lieu fee for various offsite street improvements, as discussed in detail below.

Property Dedication (approximately 0.07 acre or 3,238 SF): Along the Highland Avenue property frontage, the Project is required to dedicate 8.75 feet for street right-of-way (ROW) (approximately 370 feet) to provide the distance from street centerline (CL) to property line (PL) required for a Major Arterial (i.e., 50 feet total one-half width ROW). Accounting for this dedication, the net Project site would total approximately 4.15 acres. This condition also requires that the curb line be relocated 4.0 feet and placed 36 feet from street CL. The Project will pay an in-lieu fee to the City for the curb line relocation (as well as construction of new curb, gutter, sidewalk, Bike Lane, and bus stop pad), for future construction by the City. However, for a conservative approach, this study considers these future improvements in the impact analyses.

Offsite Street Improvements (within ROW inclusive of dedication): The offsite improvements described below would occur on approximately 0.43 acre (approximately 18,740 SF). Accounting for these offsite improvements, the Project site would total approximately 4.6 acres.

- Two new driveways would be constructed along the Project frontage. Additionally, the Project would rehabilitate Highland Avenue from street CL to PL I (i.e., one-half width ROW). The new curb, gutter, and sidewalk along the Project frontage are future construction by the City.
- A type II Bike Lane along the Project frontage and the bus stop street pad would be future construction by the City.
- The existing street light would be removed and replaced with two new LED street lights in accordance with City standards.
- The existing overhead power line along the Project frontage would be undergrounded for approximately 450 linear feet, from the Project site's eastern property line to approximately 80 feet beyond western property line.

4.0 FINDINGS CONCERNING CEQA COMPLIANCE

Kimley-Horn has completed the Project's CEQA compliance review and summarized the findings below.

Exemption Justification Under Class 32 – Infill Development

Land Use Consistency. City of San Bernardino General Plan (SBGP) Figure LU-2, *General Plan Land Use Map*, depicts the City's land use designations and indicates the Project site is designated Commercial - General (CG).¹ The CG designation is intended for "local and regional serving retail, personal service, entertainment, office, related commercial uses, and limited residential uses with a CUP [Conditional Use Permit]."² The Project proposes a self-storage facility, which would be a local serving retail use, therefore, would be consistent with the CG designation's intended uses.

The *Zoning Map of the City of San Bernardino* depicts the City's zoning and indicates the Project site is zoned CG-1 (Commercial General).³ The CG-1 Zone is addressed in San Bernardino Municipal Code (SBMC) Chapter 19.06 – Commercial Zones. The CG-1 Zone is intended to provide for the continued use, enhancement, and new development of retail, personal service, entertainment, office and related commercial uses along major transportation corridors and intersections to service the needs of the residents; reinforcing existing commercial corridors and centers and establishing new locations as residential growth occurs (SBMC § 19.06.010). SBMC Table 06.01 - Commercial Zones List of Permitted, Development Permitted and Conditionally Permitted Uses lists those primary uses in the commercial zones, which are Permitted (P) or subject to other permitting requirements. The Project proposes an approximately 92,110-SF self-storage facility. Review of SBMC Table 06.01 indicates the proposed self-storage facility would be permitted within the CG-1 zone subject to a Minor-Conditional Use Permit (C). **Table 1: Project Consistency with Development Standards**, summarizes the relevant CG-1 development standards and indicates the Project is consistent with each standard. Therefore, the proposed Project would be consistent with the CG-1 Zone.

¹ City of San Bernardino. (2005). *City of San Bernardino General Plan Figure LU-1, Foundation Component Plan*. San Bernardino, CA: City of San Bernardino.

² City of San Bernardino. (2005). *City of San Bernardino General Plan Table LU-2, Land Use Designations*. San Bernardino, CA: City of San Bernardino.

³ City of San Bernardino. (2019). *City of San Bernardino Public Zoning Map, Land Use Designations*. San Bernardino, CA: City of San Bernardino.

Table 1: Project Consistency with Development Standards			
CG-1 Zone Development Standards¹		Project	Consistent?
Net Lot Area ²	10,000 SF ³ minimum	180,983 SF	Yes
Front Setback	10 feet minimum	10 feet	Yes
Rear Setback	10 feet ⁴	10 feet	Yes
Side Setback (Each)	10 feet ⁴	Not applicable	Yes
Side Setback (Street Side)	Not applicable		
Lot Coverage	50 percent maximum	92,110 SF/182,952 SF = 0.50	Yes
Structure Height	2 stories, 30 feet maximum	1 story, 18 feet	Yes
Notes: 1. SBMC Table 06.02 - Commercial Zones Development Standards. 2. This standard is required only for new commercial and industrial subdivisions; see SBMC Table 06.02. 3. SF = square feet 4. The Project site is adjacent to a Residential Land Use District (to the north/rear and east/side), thus, the minimum side and rear setbacks shall be 10 feet.			

Location and Size. The Project site totals approximately 4.6 acres and is located entirely within San Bernardino City limits. Land uses surrounding the Project site include single-family residential to the north, commercial and religious to the south, multi-family residential and commercial to the east, and commercial and vacant lots to the west. Therefore, the proposed Project would occur entirely within City limits on a site that is no more than 5.0 acres and substantially surrounded by urban uses.

Biological Resources. On December 6, 2021, Rocks Biological Consulting (RBC) conducted a field survey within the subject property.⁴ The *Biological Technical Memo for 1300 East Highland* describes the current site conditions and potential biological constraints for the Project site’s development; **see Appendix 2.**

The Project site is an abandoned lot that contains developed areas, including pavement and dilapidated building, and disturbed habitat with little-to-no native vegetation. The Project site receives frequent disturbance from humans, as evident by the amount of litter scattered throughout the site. A similar abandoned lot, dominated by disturbed habitat abuts the Project

⁴ The 0.4-acre lot adjacent to the Project site’s southwestern portion was also surveyed.

site's western portion, while residential and commercial development surrounds all remaining sides, as discussed above. The area of potential habitat nearest the Project site occurs approximately 1,000 feet to the south as a community park, although that nearby area provides minimal biological value. No candidate, sensitive, or special-status plant or wildlife species, including burrowing owl, riparian habitat, or other sensitive natural community, or wetlands were observed during the field survey. However, small mammal burrows and a relatively small area (approximately 1.58 acres) of disturbed habitat that is marginally suitable for burrowing owl were observed during the field survey. Due to the Project's location within the San Bernardino County Burrowing Owl Overlay Zone⁵, preconstruction surveys for burrowing owl are recommended even if there is low potential for the species to occur onsite. Additionally, preconstruction surveys for ground-nesting bird species are recommended if construction activities should take place during the bird breeding season (February 1st through September 30th). The City would require that both surveys be conducted as Project COA. Through compliance with the recommended burrowing owl and ground-nesting bird species preconstruction surveys, the Project would not result in any significant effects relating to biological resources.

Traffic. **Appendix 3A** includes the Project's Traffic Scope Approval Form⁶ and **Appendix 3B** includes the Project's Trip Generation and Vehicle Miles Travelled Technical Memorandum (VMT TM). Under the *City of San Bernardino Traffic Impact Analysis Guidelines* (TIA Guidelines) (Fehr & Peers, August 2020), projects may be screened from further VMT analysis if they meet certain criteria. Specifically, the TIA Guidelines specify that projects generating less than 110 daily vehicle trips are presumed to have a less than significant transportation impact under CEQA and may be screened from further analysis. As concluded in the VMT TM, the Project is anticipated to generate approximately 110 daily vehicle trips, thus, is considered to have a less than significant transportation impact and may be screened from further VMT analysis. Therefore, the Project's approval would not result in any significant effects relating to traffic.

Noise and Vibration. As concluded in the Project's Noise and Vibration Analysis (see **Appendix 4**), the Project's construction and operational noise and vibration levels would not exceed any City or Federal Transit Administration standards. The Project would result in less than significant construction and operational noise and vibration impacts and no mitigation is required. Therefore, the Project's approval would not result in any significant effects relating to noise and vibration.

Air Quality. As concluded in the Project's Air Quality Analysis (see **Appendix 5**), the Project's construction and operational emissions would not exceed any South Coast Air Quality Management District (AQMD) standards, California Ambient Air Quality Standards, or National Ambient Air Quality Standards. The Project would result in less than significant construction and

⁵ County of San Bernardino. (2012). *Biotic Resources Overlay Map*. Retrieved from http://www.sbcounty.gov/Uploads/lus/BioMaps/cnty_all_biotic_resources_map_final.pdf

⁶ This was reviewed and approved by the City of San Bernardino Public Works Department.

operational air quality impacts and no mitigation is required. Notwithstanding, the Project would be subject to compliance with South Coast AQMD Rules 402, 403, and 1113, which prohibit nuisances, require dust control measures, and limit Volatile Organic Compounds (VOCs) (a content in paints), respectively. Compliance with South Coast AQMD rules would further minimize the Project's construction-related emissions. Therefore, the Project's approval would not result in any significant effects relating to air quality.

Water Quality. The Project's construction-related activities would include excavation, grading, and trenching, which would displace soils and temporarily increase the potential for soils to be subject to wind and water erosion. Construction-related erosion effects would be addressed through compliance with the National Pollutant Discharge Elimination System (NPDES) program's Construction General Permit. The Construction General Permit requires development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) and monitoring plan, which must include erosion-control and sediment-control BMPs that would meet or exceed measures required by the Construction General Permit to control potential construction-related pollutants.

During Project construction, stormwater runoff would flow to existing stormwater infrastructure, including curb inlet catch basins along street frontages. The Project would also be subject to compliance with SBMC Chapter 8.80, Storm Water Drainage System, requirements. SBMC § 8.80.502 – General Permit for Storm Water Discharges from Construction Activity, requires evidence of compliance with the General Construction Permit to be provided to the City's Development Services Department. Further, as required by SBMC § 8.80.501 – Storm Water Quality Management Plan (SWQMP), prior to issuance of any grading or building permit, a SWQMP identifying all BMPs would be incorporated into the Project to control storm water and non-storm water pollutants during and after construction and revised as necessary during the Project's life. Non-storm water discharge limitations from construction activities and reporting requirements would be addressed through compliance with SBMC § 8.80.503 – Non-Storm Water Discharges, and SBMC § 8.80.504 – Non-Storm Water Discharge Reporting Requirements. SBMC § 8.80.505 – Best Management Practices, requires implementation of appropriate construction and post-construction BMPs to reduce pollutants. Following compliance with NPDES and City requirements (i.e., Construction General Permit and SBMC Chapter 8.80), the Project's construction-related activities would not violate any water quality standards or otherwise substantially degrade surface or groundwater quality.

The Project would be subject to compliance with SBMC § 8.80.505 – Best Management Practices, which would prevent pollutants from contacting storm water or remove pollutants from storm water runoff to the maximum extent practicable. Implementation of appropriate post-construction BMPs would be required to reduce pollutants. Additionally, compliance with SBMC § 8.80.505 would prohibit all non-storm water discharges, except as permitted by an NPDES Storm Water Permit or SBMC § 8.80.207. Drainage for the proposed offsite street improvements would

be constructed pursuant to City standards. Following compliance with NPDES and City requirements, Project operations would not violate any water quality standards or otherwise substantially degrade surface or groundwater quality.

Therefore, the Project's approval would not result in any significant effects relating to water quality.

Utilities and Public Services. The Project would occur within an urbanized area where service is already provided. The Project would remove one existing aging street light, replacing it with two new LED street lights in accordance with City standards. The Project would also underground the existing overhead power line along Highland Avenue for approximately 450 linear feet. Additionally, the Project would be consistent with the site's intended land uses, as concluded in the *Land Use* Section above; thus, the demands for utilities and public services associated with the property have been accounted for. Therefore, the Project site can be adequately served by all required utilities and public services.

Exceptions to Categorical Exemptions

As previously noted, a project is exempt from CEQA pursuant to a CE provided the application of that CE is not barred by one of the exceptions set forth in State CEQA Guidelines §15300.2. The following demonstrates the Project does not meet any of the exceptions that would bar a CE.

Exception A, Location. The Project would qualify for a CE under Class 32; therefore, because this exception pertains to Classes 3, 4, 5, 6, and 11, it is not applicable to the proposed Project.

Exception B, Cumulative Impact. Other proposed projects within the Project area would be required to demonstrate consistency with SBGP policies and SBMC regulations. There are no successive projects similar to the proposed Project proposed on the Project site. Additionally, as concluded above, the Project would result in no environmental impact or less than significant impacts. Therefore, no significant cumulative impact would occur.

Exception C, Significant Effect. The proposed Project is not expected to have a significant effect on the environment due to unusual circumstances; see *Exemption Justification* above for biological resources, traffic, noise and vibration, air quality, and water quality.

Exception D, Scenic Highways. There are no State- or County-designated scenic highways in the Project site vicinity.⁷ Moreover, there are no scenic resources present on the Project site. Therefore, the Project would not damage scenic resources within a State scenic highway.

⁷ California Department of Transportation. (2017). *California Scenic Highways*. Retrieved from https://services1.arcgis.com/OMSEUqKaxRIEj5g/arcgis/rest/services/CA_Scenic_Hwys/FeatureServer

Exception E, Hazardous Waste Sites. Government Code §65962.5 refers to the Hazardous Waste and Substances Site List, commonly known as the Cortese List, maintained by the Department of Toxic Substances Control. The Project site is not included on the Cortese List.⁸

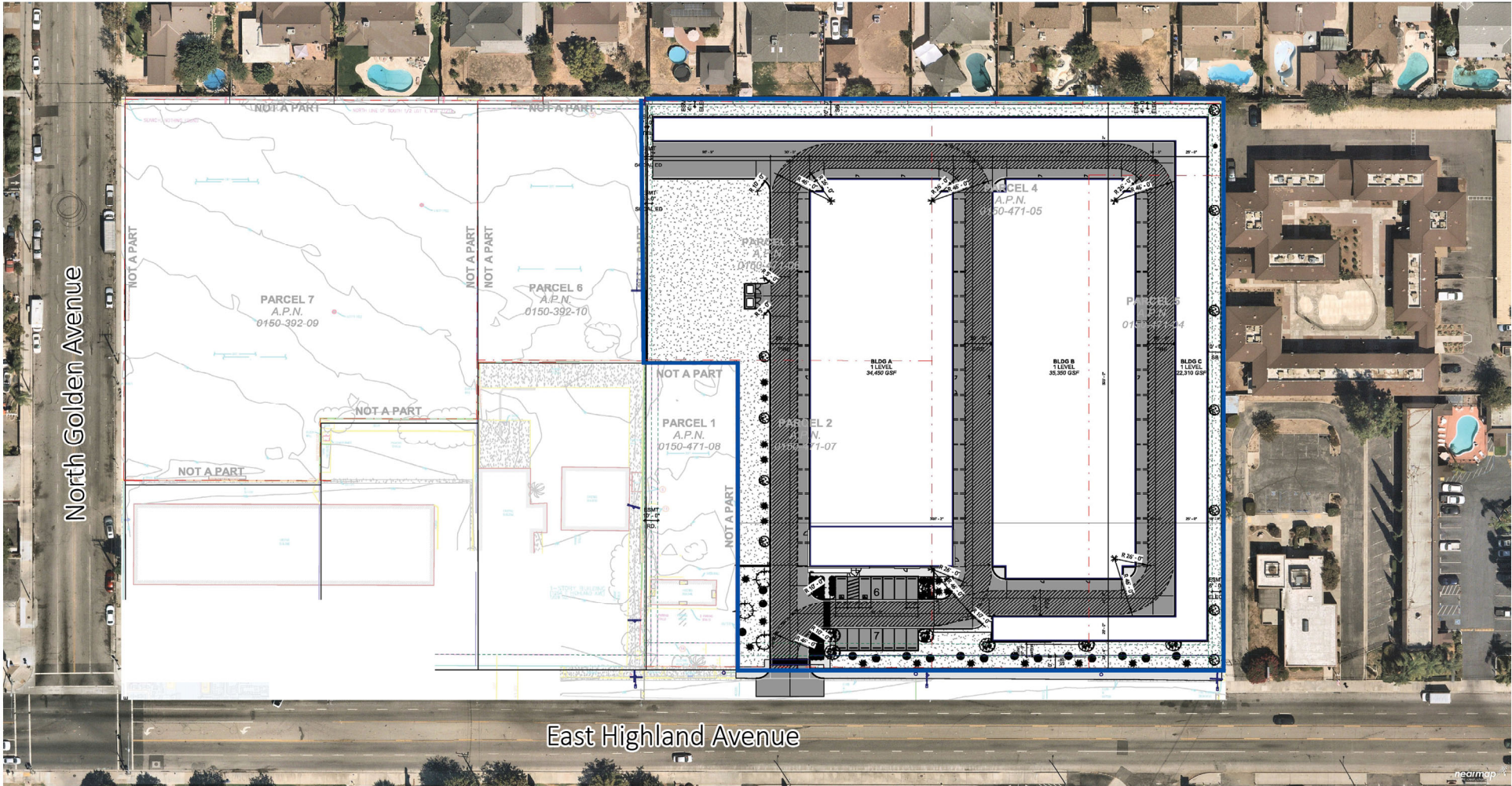
Exception D, Historical Resources. As concluded in the Cultural Resources Assessment Preliminary Results (see **Appendix 6**), there are no designated historical resources on the Project site or in its immediate vicinity. The Project site was formerly occupied by the Mediterranean Restaurant that opened circa 1968. The Mediterranean Restaurant was reportedly destroyed by fire and as such does not warrant further consideration. Therefore, the Project would not cause a substantial adverse change in the significance of a historical resource.

5.0 CONCLUSION

As is evidenced by the discussions presented above, the proposed Project qualifies as being exempt from CEQA under Class 32. Moreover, it has been determined that the Project is not barred from the application of a CE, pursuant to State CEQA Guidelines §15300.2. Therefore, it has been determined that the proposed Project would not have a significant effect on the environment and a CE is the appropriate CEQA documentation.

⁸ Department of Toxic Substance Control. (2021). EnviroStor. Retrieved from <https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=1300+E+Highland+Ave+%2CSan%20Bernardino%2C+CA>

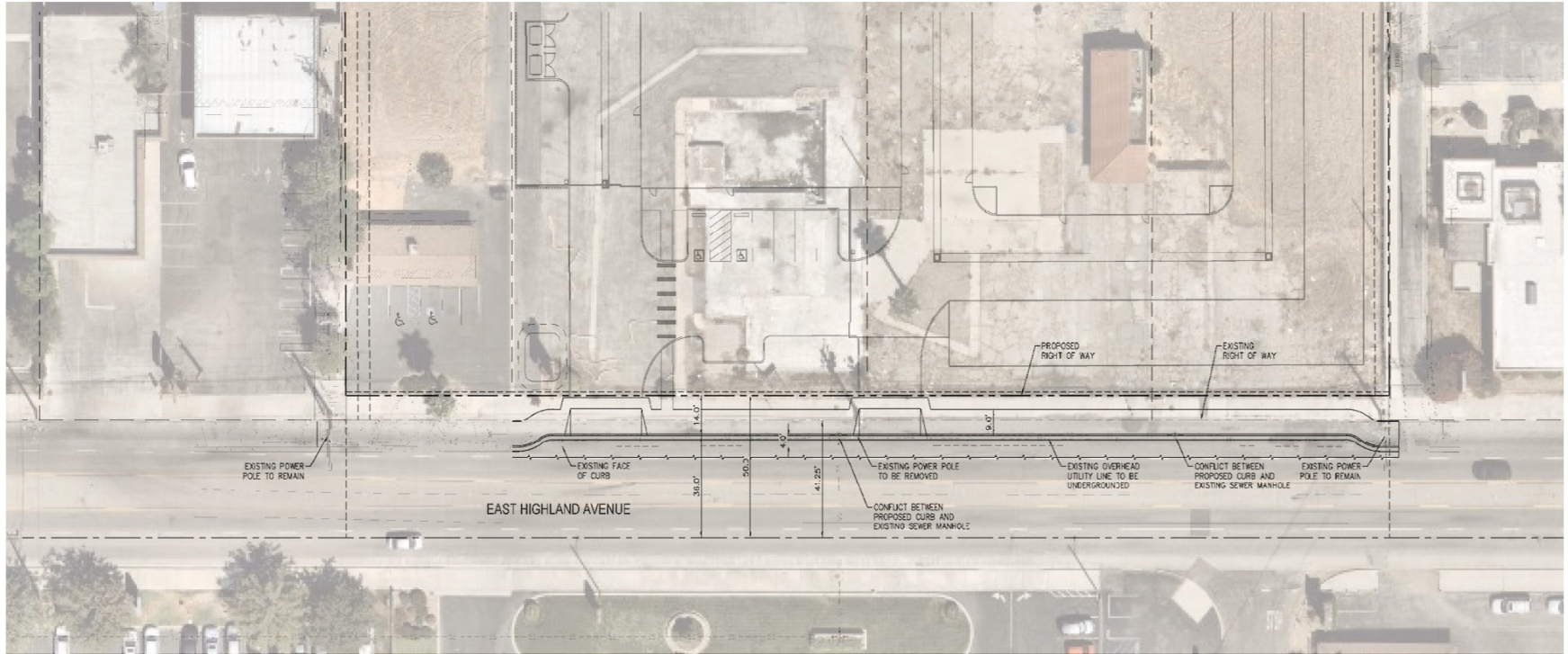
APPENDIX 1A: CONCEPTUAL SITE PLAN



North Golden Avenue

East Highland Avenue

APPENDIX 1B: OFFSITE STREET IMPROVEMENTS AND DEDICATION



APPENDIX 2: BIOLOGICAL RESOURCES TECHNICAL MEMO



To: Ms. Rita Garcia, Kimley-Horn and Associates
From: Keoni Calantas, Rocks Biological Consulting
Date: January 31, 2022
Subject: Biological Technical Memo for 1300 East Highland

On December 6, 2021, Rocks Biological Consulting (RBC) conducted a field survey for the 1300 East Highland Project (project) in San Bernardino, California. The field survey included a general biological survey, vegetation mapping, general habitat assessments for special-status species, and a constraints-level wetland/non-wetland waters jurisdictional assessment within the 4.64-acre project site. This memo describes the current site conditions and potential biological constraints for the development of the project site, which includes Parcels 1 through 5 only.

1. EXISTING SITE CONDITIONS SUMMARY

The project site is an abandoned lot that contains developed areas, including pavement and dilapidated building, and disturbed habitat with little-to-no native vegetation (Figure 1). The project site does not appear to have a designated use, as there are no functioning structures on site. The project site receives frequent disturbance from humans, as evident by the amount of litter scattered throughout the site. No aquatic features or areas with potential to support aquatic features were observed during the field survey.

The project site is situated in the middle of the City of San Bernardino, surrounded by development. A similar abandoned lot, dominated by disturbed habitat abuts the western portion of the project site, while residential and commercial development surrounds all remaining sides. The nearest area of potential habitat occurs approximately 1,000 feet to the south of the project site as a community park, although that nearby area provides minimal biological value.

2. POTENTIAL BIOLOGICAL CONSTRAINTS

Special-Status Species

No special status species were observed during the field survey of the project. Queries of the United States Fish and Wildlife Service (USFWS) special-status species database and the California Natural Diversity Database (CNDDB) revealed that there are some documented occurrences of special-status species within one mile of the project, such as Southern California legless lizard (*Anniella stebbinsi*), southern rubber boa (*Charina umbratica*), Parish desert-thorn (*Lycium parishii*), and Parish bush-mallow (*Malacothamnus parishii*). However,

due to the lack of natural habitat within and surrounding the project site, as well as the current land use, most special-status wildlife and plant species have little-to-no potential to occur within the project.

Delhi Sands flower-loving fly (*Rhaphiomidas terminates abdominalis*; federally endangered) is known to occur within the project area. This species has been documented within one mile of the project site. However, Delhi fine sands are not mapped within the project site, therefore, it is highly unlikely that the site supports this species.

The project site is within the San Bernardino County Burrowing Owl Overlay Zone (County of San Bernardino 2012). A habitat assessment conducted during the survey concluded that the project site is marginally suitable for burrowing owl; although the disturbed habitat on site is relatively small (1.58 acres), small mammal burrows were observed during the survey and the adjacent western lot also contains marginally suitable habitat. No burrowing owl or burrowing owl sign was observed during the survey. To help prevent impacts to burrowing owl resulting from the project, the following mitigation measure is recommended:

A qualified biologist(s) will conduct a pre-construction presence/absence survey for burrowing owl at least 14 days prior to ground disturbing activities and within 24 hours immediately before ground disturbing activities. If burrowing owl are documented on site, construction will be halted, and the project applicant shall develop a plan for avoidance or passive exclusion. The plan shall be made in coordination with CDFW. If burrowing owl are not found on site, construction may proceed without further restrictions related to burrowing owls.

Although the site does not contain and trees or shrubs, the project site still has potential to support ground-nesting bird species. The following mitigation measure is recommended if construction should take place during the bird breeding season:

Vegetation clearing, structure removal, and ground disturbing activities should be conducted outside of the nesting season (February 1 through September 30). If construction activities occur during the nesting season, the applicant, through the use of a qualified biologist, will conduct a nesting bird survey within seven days prior to any disturbance of the site, including tree and shrub removal, disking, demolition activities, and grading. If active nests are identified, the biologist shall establish suitable buffers around the nests depending on the level of activity within the buffer and species observed, and the buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests. If active nests are not identified, vegetation clearing and ground disturbing activities may commence. If ground disturbing activities are scheduled outside of the nesting season, a nesting bird survey will not be required.

With the implementation of these mitigation measures, potential impacts on special-status species would be avoided and/or minimized.

Riparian and Other Sensitive Habitats

As previously mentioned, the project contains no native vegetation communities. The project site contains 1.58 acres of disturbed habitat and 3.06 acres of developed habitat. No riparian habitat exists within the project site. The project site does not occur within USFWS Critical Habitat. There would be no impacts to riparian and other sensitive habitats resulting from the development of the project site.

Jurisdictional Wetlands

No wetlands or areas to support wetlands potentially jurisdictional under US Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), or California Department of Fish and Wildlife were observed within the project site during the field survey. There would be no impacts to jurisdictional wetlands resulting from the development of the project site.

Wildlife Corridors

The project site is surrounded by developed habitat and does not function as part of a regional wildlife corridor. There would be no impacts to wildlife corridors resulting from the development of the project site.

Local Ordinances and Policies

The project site contains little-to-no biological value. As previously mentioned, the project is within San Bernardino County Burrowing Owl Overlay Zone; however, burrowing owl is addressed in the above sections. There are no other local ordinances or policies protecting on-site biological resources. There would be no impacts to local ordinances or policies protecting biological resources resulting from the development of the project site.

Habitat Conservation Plans/Natural Communities Conservation Plan


The project site is not within an approved or planned Habitat Conservation Plan (HCP) or Natural Communities Conservation Plan (NCCP). There would be no impacts to HCPs/NCCPs resulting from the development of the project site.

3. CONCLUSIONS

Although the project site is relatively disturbed and contains little-to-no biological value, there is still some potential (albeit low) to support sensitive biological resources. Due to the project's location within the San Bernardino County Burrowing Owl Overlay Zone, preconstruction surveys for burrowing owl are recommended even if there is low potential for the species to occur on site. Preconstruction surveys for ground-nesting bird species are also recommended if construction activities should take place during the bird breeding season.

If you have any questions regarding this report, please don't hesitate to contact me at (619) 769-4415.

Sincerely,

A handwritten signature in black ink that reads "KEONI CALANTAS". The signature is stylized with a large, sweeping underline that loops back under the name.

Keoni Calantas
Senior Biologist/Project Manager

Attachments

Figure 1. Vegetation






 Project Boundary
Vegetation
 Disturbed Habitat
 Developed

FIGURE
1
Vegetation
 1300 E HIGHLAND AVE
 SAN BERNARDINO, CA



Aerial Photo: Nearmap 2021

APPENDIX 3A: TRAFFIC SCOPE APPROVAL FORM - APPROVED



City of San Bernardino Public Works / Traffic Engineering Department Traffic Scope Approval Form

To be completed by applicant consultant and approved by Public Works prior to start of study

Project Name:	<u>Highland Ave InSite Self-Storage Facility</u>	
Address:	<u>1300 East Highland Ave, San Bernardino, CA 92404</u>	
Description:	<u>92,110 SF Self-Storage Facility</u>	
Developer's Name:	<u>InSite Property Group LLC, c/o Brian Sorenson</u>	
Address:	<u>19191 S. Vermont Ave, Suite 680, Torrance, CA 90502</u>	
Telephone No.:	<u>575-936-0877</u>	Email address: <u>bsorenson@insitepg.com</u>

Trip Generation Rates from ITE Latest Edition

Land Use (1) Mini-Warehouse (Self-Storage)
 Development Sq Ft 92,110 SF / 607 Storage Units
 ITE Land Use Code 151 - Mini-Warehouse
 Daily Trips 109
 AM Peak Hour Trips
 Inbound 4
 Outbound 4
 Total 8
 PM Peak Hour Trips
 Inbound 5
 Outbound 5
 Total 10

Land Use (2) _____
 Development Sq Ft _____
 ITE Land Use Code _____
 Daily Trips _____
 AM Peak Hour Trips
 Inbound _____
 Outbound _____
 Total _____
 PM Peak Hour Trips
 Inbound _____
 Outbound _____
 Total _____

(Use Additional Sheet(s), if necessary)

Pass-by Trips (%), if applicable: _____ %
 Land Use (1) _____
 ITE Land Use Code _____
 Daily Trips _____
 AM Peak Hour Trips
 Inbound _____
 Outbound _____
 Total _____
 PM Peak Hour Trips:
 Inbound _____
 Outbound _____
 Total _____

Land Use (2) _____
 ITE Land Use Code _____
 Daily Trips _____
 AM Peak Hour Trips
 Inbound _____
 Outbound _____
 Total _____
 PM Peak Hour Trips:
 Inbound _____
 Outbound _____
 Total _____

Project Opening Year: 2023
Study Intersections: _____

Build-out Year: _____

Does not apply. The Project is not anticipated to increase daily or peak-hour trips at the project site by more than the San Bernardino TIA analysis threshold of 250 daily trips or 50 peak hour trips; intersection traffic analysis is not anticipated to be required.

(Use Additional Sheet(s) and Maps to show project Boundaries & Attach memo for project Description)



**City of San Bernardino Public Works / Traffic Engineering Department
Traffic Scope Approval Form**

To be completed by applicant consultant and approved by Public Works prior to start of study

Study Roadway Segments: Does not apply. The Project is not anticipated to increase daily or peak-hour trips at the project site by more than the San Bernardino TIA analysis threshold of 250 daily trips or 50 peak hour trips; roadway segment traffic analysis is not anticipated to be required.

Proposed Development Use: Residential Commercial Mixed Use Other

Software Methodology: Synchro HCS N/A

Additional issues to be considered:

<input type="checkbox"/> Bike/Ped Accommodations	<input type="checkbox"/> Merge Analysis	<input type="checkbox"/> Queuing Analysis
<input type="checkbox"/> Actuation/Coordination	<input type="checkbox"/> Safety Analysis	<input type="checkbox"/> Gap Analysis
		<input type="checkbox"/> Sight Distance Analysis

Is the project screened from VMT assessment? Yes No

VMT Screening Justification: The Highland Ave InSite Self-Storage Facility is anticipated to generate less than 110 daily vehicle trips, meeting the San Bernardino TIA Guidelines Project Type Screening Criteria. Additionally, the project will serve its local community with self-storage, which will reduce regional VMT by providing convenient storage solutions closer to home than currently exist. Therefore, this project is considered a locally-serving retail/service project and is considered to have a less than significant impact for CEQA/transportation. Please see additional justification below.

Ambient Growth Rate:

Does not apply per trip generation discussion above.

Trip Distribution: East

Consultant Preparer's Name: Leo Espelet, PE, TE

Address: 401 B Street, Suite 600, San Diego, CA 92101

Telephone No. 619-744-0136 **PE / TE License #:** RCE #71532, TE # 2678

Email Address: leo.espelet@kimley-horn.com

Signature:  **Date:** November 16, 2021

Approved By (Public Works Department):

Signature:  **Date:** 12/13/2021

Name: Azzam Jabshuh **Title:** Traffic Engineer

VMT Screening Continued:

Senate Bill 743 (SB 743) was signed into law on September 27, 2013 and changed the way that public agencies evaluate transportation impact under CEQA. A key element of this law is the elimination of using auto delay, LOS, and other similar measures of vehicular capacity or traffic congestion as a basis for determining significant transportation impacts under CEQA. The legislative intent of SB 743 was to "more appropriately balance the needs of congestion management with statewide goals related to infill development, promotion of public health through active transportation, and reduction of greenhouse gas (GHG) emissions." According to the law, "traffic congestion shall not be considered a significant impact on the environment" within CEQA transportation analysis.

In response, the Governor's Office of Planning and Research (OPR) updated CEQA Guidelines to establish new criteria for determining the significance of transportation impacts. Based on input from the public, public agencies, and various organizations, OPR recommended that Vehicle Miles Traveled (VMT) be the primary metric for evaluating transportation impacts under CEQA. VMT measures the number of vehicle trips generated and the length or distance of those trips.

To help clarify the CEQA Guidelines and SB 743, OPR developed the Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018). The advisory contains technical recommendations regarding assessment of VMT, thresholds of significance, and mitigation measures. OPR provides this Technical Advisory as a resource for the public to use at their discretion.

The OPR guidelines note the following: "... local-serving retail development tends to shorten trips and reduce VMT. Thus, lead agencies generally may presume such development creates a less-than-significant transportation impact." Locally serving retail/service projects generally improve the convenience of retail close to home and have the effect of reducing vehicle travel.

APPENDIX 3B: TRIP GENERATION AND VEHICLE MILES TRAVELLED ASSESSMENT

TECHNICAL MEMORANDUM

To: Brian Sorenson, Insite Property Group

From: Leo Espelet, P.E., T.E. and Rita Garcia

Date: November 23, 2021

Subject: Draft Transportation Analysis for the Secure Space Self-Storage Project, 1300 East Highland Avenue, City of San Bernardino, County of San Bernardino, California

This technical memorandum was prepared to document the anticipated trip generation, traffic impact analysis (TIA) screening, and vehicle miles travelled (VMT) screening for the proposed Secure Space Self-Storage Project (the Project), at 1300 East Highland Avenue. Kimley-Horn has completed these analyses based on the *City of San Bernardino Traffic Impact Analysis Guidelines* (TIA Guidelines) (Fehr & Peers, August 2020).

PROJECT UNDERSTANDING

InSite Property Group LLC is proposing to develop the approximately 4.2-acre Project site, which consists of four parcels (i.e., APNs 0150-471-04-0000, 0150-471-05-0000, 0150-471-06-0000, 0150-471-07-0000) situated northeast of the East Highland Avenue at North Golden Avenue intersection, at 1300 East Highland Avenue. The Project site is partially improved with remnants of a burned down restaurant, a small unoccupied building ancillary to the restaurant, masonry walls, and associated surface parking lots, while the remainder of the Project site is vacant. The Project proposes to demolish all onsite improvements and in their place construct an approximately 92,110 square-foot self-storage facility comprised of three separate buildings (607 storage units). There are 13 passenger vehicle parking spaces, including 2 ADA parking spaces, proposed, in addition to loading areas adjacent to the storage units. Access to the site would be provided via a driveway on the north side of East Highland Avenue. The General Plan designates the Project site Commercial General (CG). The proposed self-storage facility is consistent with the CG-1 designation's intended use (i.e., local serving commercial). The Project site is zoned CG-1 (Commercial General). The proposed self-storage facility is a permitted use in the CG-1 Zone subject to a Conditional Use Permit. **Figure 1** depicts the Project site in a regional context and **Figure 2** depicts the Project site in a local context. **Figure 3** depicts the Conceptual Site Plan.

The Project proposes to develop an underutilized property and provide the City with a needed service (i.e., a self-storage facility). It is anticipated that the Project would not have a significant effect on the environment, therefore, would be exempt from CEQA. The Project will be seeking a CEQA Categorical Exemption (CE) under Class 32 (State CEQA Guidelines §15332 – Infill Development Projects). It is anticipated that the Project will qualify under Class 32, since it meets the criteria for projects characterized as in-fill development.

Figure 1 Regional Context Map

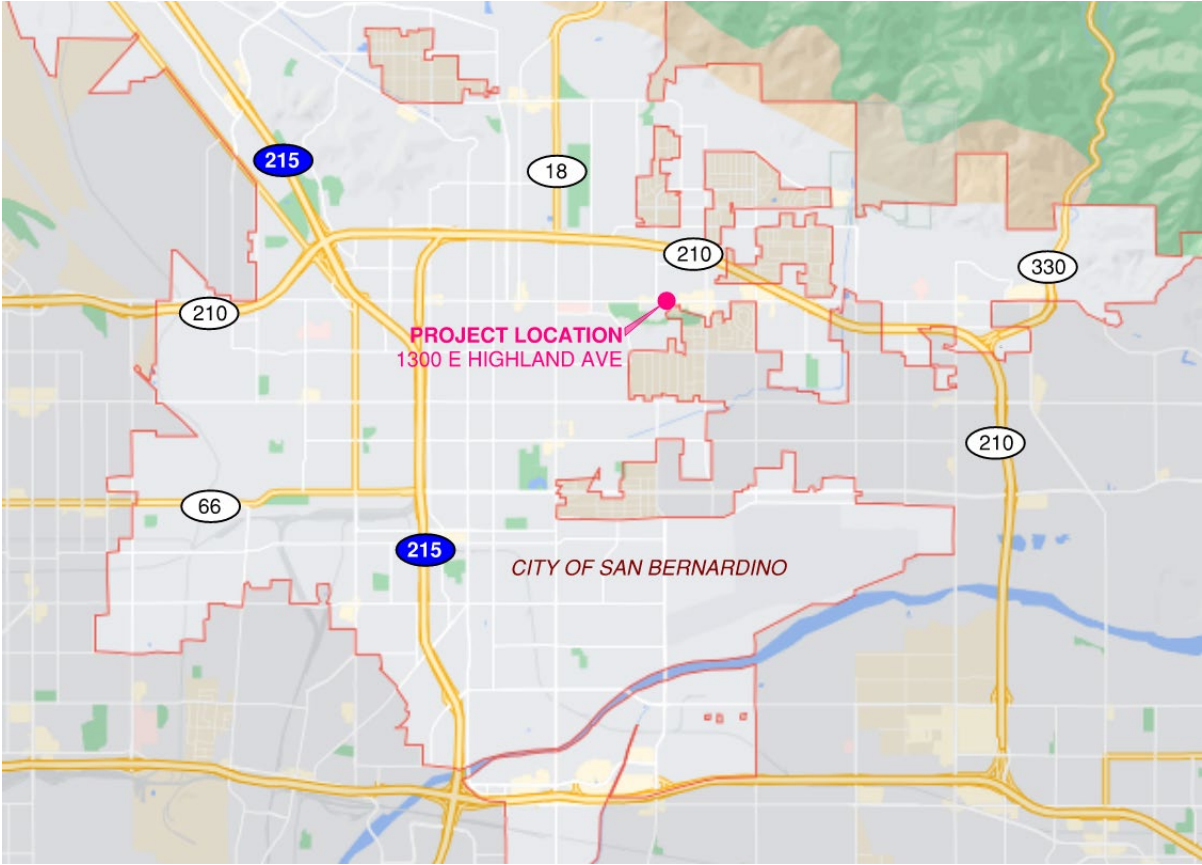
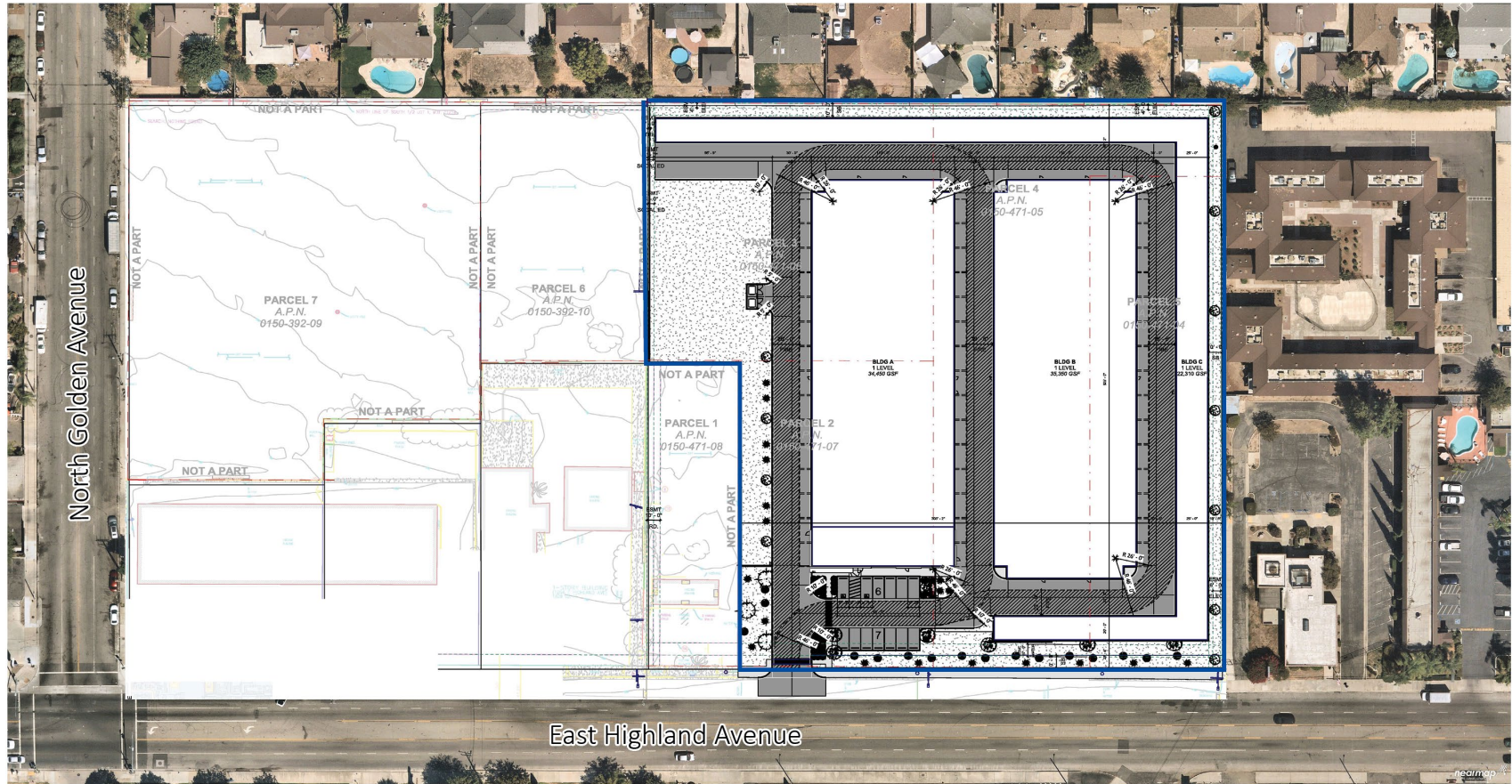


Figure 2 Local Context Map



Figure 3 Conceptual Site Plan



PROPOSED PROJECT TRIP GENERATION

The Project’s potential trip generation was calculated using Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition (2021) trip generation rates for self-storage use (Land Use Code 151: Mini-Warehouse). The Project proposes 607 self-storage units. **Table 1** shows the trip generation daily and peak-hour volume calculations.

Table 1 Trip Generation

Land Use	Size	Unit	ADT ²	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Trip Rates									
Mini-Warehouse (Self-Storage) ¹	-	100 Storage Units	17.96	0.617	0.593	1.21	0.840	0.840	1.68
Project Trip Generation									
Self-Storage	6.07	100 Storage Units	109	4	4	8	5	5	10

Note:

1. Trip rate references from ITE Trip Generation, 11th Edition. Land Use Code (151) – Mini-Warehouse.
2. ADT=Average Daily Traffic, the daily trips generated by a site.

As shown in **Table 1**, the Project is anticipated to generate 109 daily trips, with up to 8 trips during the AM peak-hour and up to 10 trips during the PM peak-hour. Self-storage unit leasers would commute to the site via private vehicles or small single-unit truck rentals, they would drop off or pick up their personal items from the storage units and then exit the site. It is not assumed that there would be daily traffic for each unit on the site, because of the nature of self-storage facilities. Individuals that use these facilities only commute to them periodically, as represented in the trip generation estimate.

TRAFFIC IMPACT ANALYSIS REPORTS – LEVEL OF SERVICE ANALYSIS SCREENING

The TIA Guidelines specify that a TIA, which includes Level of Service (LOS), analysis shall be required for a proposed project that meets any of the following criteria:

- Any project with initial traffic generation estimates showing that the project is likely to add 250 or more daily two-way trips, and/or likely to add 50 or more AM or PM peak period two-way trips to the existing circulation system. Phased projects must be evaluated as a whole assuming full build-out conditions for purposes of determining the need for a traffic study.
- Any project where variations from the standards and guidelines provided in this manual are being proposed.
- Any project that is located in the vicinity (within a 1½-mile radius from the project site) of any key intersections that currently operate at a level of service (LOS) D or worse and project traffic is likely to significantly worsen this condition.
- Any project that generates more than 40 percent of its total traffic in the form of truck traffic using passenger car equivalents (PCE).
- Any project that intensifies the usage, density, or traffic generation of the site above the level currently allowed by zoning codes, requiring a Conditional Use Permit, General Plan Amendment, or other discretionary permit.



- When determined by the City Traffic Engineer that existing or proposed traffic conditions in the project vicinity have unique characteristics that warrant evaluation.

As concluded above, the Project is forecast to generate 109 daily trips. Additionally, the Project is not anticipated to meet any of the other criteria; therefore, a TIA with LOS analysis is not required.

VEHICLE MILES TRAVELLED SCREENING

The TIA Guidelines specify that Projects generating less than 110 daily vehicle trips are presumed to have a less than significant transportation impact under CEQA and may be screened from further analysis. As concluded above, the Project is forecast to generate 109 daily trips. Therefore, the Project is screened from further analysis and would result in a less than significant transportation impact concerning VMT.

Conclusion

The following are the key conclusions of the analysis:

- The proposed Project is anticipated to generate 109 daily trips.
- Based on the Project's trip generation and the San Bernardino TIA Guidelines, the Project is not required to prepare a TIA with LOS analysis.
- The Project is anticipated to generate less than 110 daily vehicle trips and is considered a locally-serving retail/service project; therefore, it is considered to have a less than significant impact for CEQA/Transportation and may be screened from further VMT analysis.

APPENDIX 4: NOISE AND VIBRATION ANALYSIS



TECHNICAL MEMORANDUM

To: Mike Rosales, City of San Bernardino
From: Rita Garcia, Project Manager, and Ryan Chiene, Technical Manager
Date: January 31, 2022
Subject: 1300 East Highland Avenue Self-Storage Project – Noise and Vibration Analysis

PURPOSE

The purpose of this Technical Memorandum (TM) is to evaluate the noise and vibration associated with construction and operations of the proposed Self-Storage Project (Project), at 1300 East Highland Avenue, City of San Bernardino (City), California. This TM has been undertaken as supporting documentation to substantiate the appropriateness of a Class 32 Categorical Exemption (CE) under the California Environmental Quality Act (CEQA).

PROJECT DESCRIPTION

The approximately 4.23-acre subject property consists of four parcels (i.e., APNs 0150-471-04-0000, 0150-471-05-0000, 0150-471-06-0000, 0150-471-07-0000) situated northeast of the East Highland Avenue at North Golden Avenue intersection, at 1300 East Highland Avenue, City of Highland. The Project site is partially improved with remnants of a burned down restaurant, a small unoccupied building ancillary to the former restaurant, and associated surface parking lots, while the remainder of the Project site is vacant. The surrounding land uses include single-family residential to the north, Highland Avenue and commercial and religious uses to the south, multi-family residential and commercial uses to the east, and commercial uses and vacant lots to the west. The sensitive receptors nearest the Project site are the single-family residential uses located adjacent/immediately to the north and multi-family residential uses located adjacent/immediately to the east.

The Project proposes to demolish all existing onsite improvements and, in their place, construct an approximately 92,110-square foot (SF) self-storage facility (see **Exhibit 1: Conceptual Site Plan**). Pursuant to City of San Bernardino Public Works Conditions of Approval (COA) (see **Appendix 7**), the Project is required to dedicate property and either construct or pay an in-lieu fee for various offsite street improvements, as discussed in detail below.

Property Dedication (approximately 0.07 acre or 3,238 SF): Along the Highland Avenue property frontage, the Project is required to dedicate 8.75 feet for street right-of-way (ROW) (approximately 370 feet) to provide the distance from street centerline (CL) to property line (PL) required for a Major Arterial (i.e., 50 feet total one-half width ROW). Accounting for this dedication, the net Project site would total

approximately 4.15 acres. This condition also requires that the curb line be relocated 4.0 feet and placed 36 feet from street CL. The Project will pay an in-lieu fee to the City for the curb line relocation (as well as construction of new curb, gutter, sidewalk, Bike Lane, and bus stop pad), for future construction by the City. However, for a conservative approach, this study considers these future improvements in the impact analyses.

Offsite Street Improvements (within ROW inclusive of dedication): The offsite improvements described below would occur on approximately 0.43 acre (approximately 18,740 SF). Accounting for these offsite improvements, the Project site would total approximately 4.6 acres.

- Two new driveways would be constructed along the Project frontage. Additionally, the Project would rehabilitate Highland Avenue from street CL to PL I (i.e., one-half width ROW). The new curb, gutter, and sidewalk along the Project frontage are future construction by the City.
- A type II Bike Lane along the Project frontage and the bus stop street pad would be future construction by the City.
- The existing street light would be removed and replaced with two new LED street lights in accordance with City standards.
- The existing overhead power line along the Project frontage would be undergrounded for approximately 450 linear feet, from the Project site's eastern property line to approximately 80 feet beyond western property line.

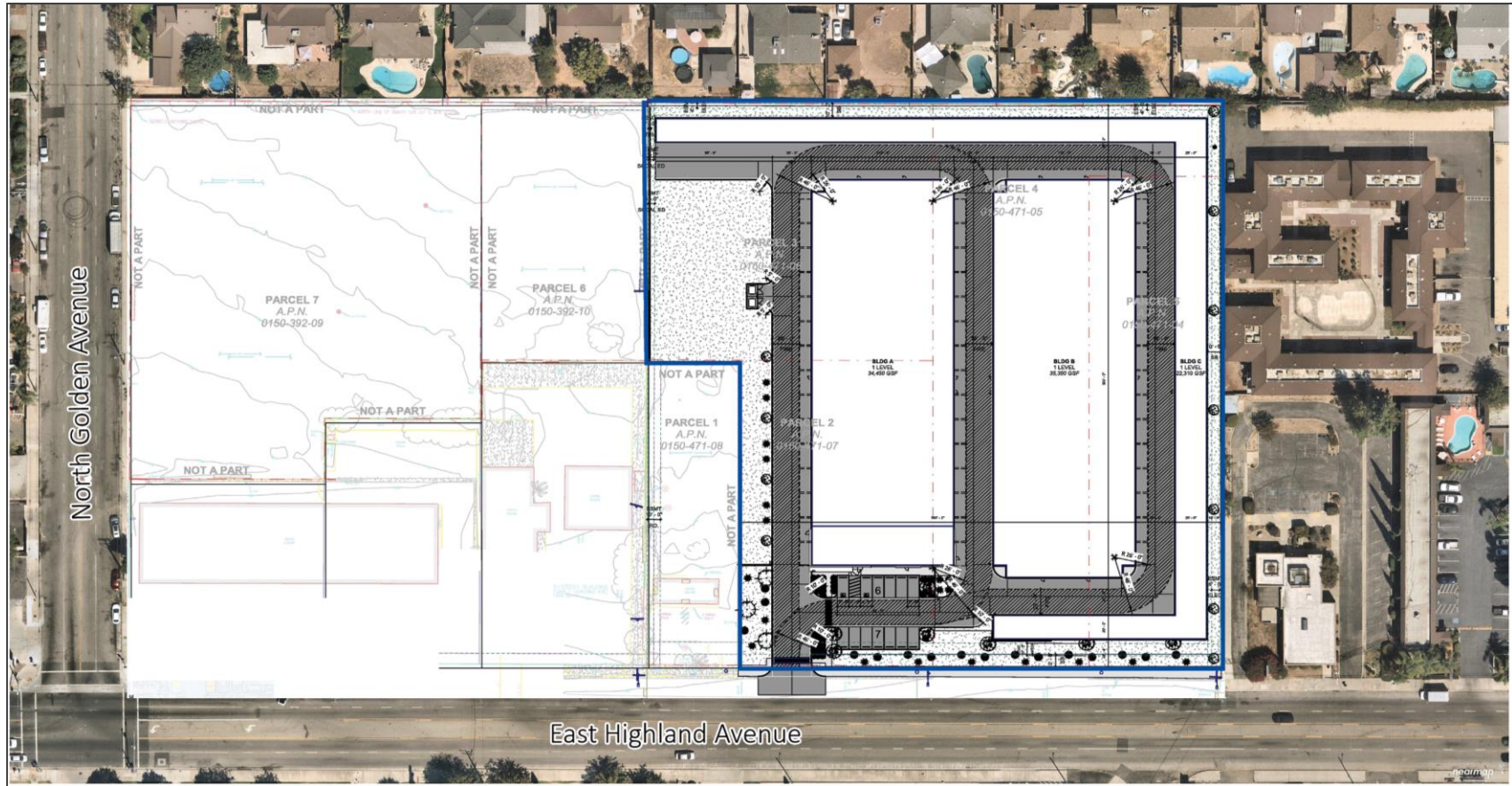
Project construction is expected to occur over approximately 12 months, beginning July 2022, and ending July 2023.

City of San Bernardino General Plan (SBGP) Figure LU-2, General Plan Land Use Map, depicts the City's land use designations and indicates the Project site is designated Commercial - General (CG).¹ The Zoning Map of the City of San Bernardino depicts the City's zoning and indicates the Project site is zoned CG-1 (Commercial General).²

¹ City of San Bernardino. (2005). *City of San Bernardino General Plan Figure LU-1, Foundation Component Plan*. San Bernardino, CA: City of San Bernardino.

² City of San Bernardino. (2019). *City of San Bernardino Public Zoning Map*. San Bernardino, CA: City of San Bernardino.

Exhibit 1: Conceptual Site Plan



Source: Rozen Design Solutions 2021

NOISE BACKGROUND

Sound is technically described in terms of amplitude (loudness) and frequency (pitch). The standard unit of sound amplitude measurement is the decibel (dB). The decibel scale is a logarithmic scale that describes the physical intensity of the pressure vibrations that make up any sound. The pitch of the sound is related to the frequency of the pressure vibration. Since the human ear is not equally sensitive to a given sound level at all frequencies, a special frequency-dependent rating scale has been devised to relate noise to human sensitivity. The A-weighted decibel scale (dBA) provides this compensation by discriminating against frequencies in a manner approximating the sensitivity of the human ear. Noise, on the other hand, is typically defined as unwanted sound. A typical noise environment consists of a base of steady ambient noise that is the sum of various distant and indistinguishable noise sources. Superimposed on this background noise is the sound from individual local sources. These can vary from an occasional aircraft or train passing by to virtually continuous noise from traffic on a major highway.

Several rating scales have been developed to analyze the adverse effect of community noise on people. Since environmental noise fluctuates over time, these scales consider that the effect of noise on people is largely dependent on the total acoustical energy content of the noise as well as the time of day when the noise occurs. For example, the equivalent continuous sound level (L_{eq}) is the average acoustic energy content of noise for a stated period of time; thus, the L_{eq} of a time-varying noise and that of a steady noise are the same if they deliver the same acoustic energy to the ear during exposure. The Day-Night Sound level (L_{dn}) is a 24-hour average L_{eq} with a 10 dBA “weighting” added to noise during the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity in the nighttime. The Community Noise Equivalent Level (CNEL) is a 24-hour average L_{eq} with a 10 dBA weighting added to noise during the hours of 10:00 p.m. to 7:00 a.m. and an additional 5 dBA weighting during the hours of 7:00 p.m. to 10:00 p.m. to account for noise sensitivity in the evening and nighttime.

REGULATORY SETTING

City of San Bernardino General Plan

City of San Bernardino General Plan (2005) Noise Element (SBGP Noise Element) identifies noise-sensitive land uses and noise sources, defines areas of noise impact, and contains policies and programs to achieve and maintain noise levels compatible with various land use types. The element addresses noise which affects the community at large, rather than noise associated with site-specific conditions. The SCGP Noise Element also identifies land use guidelines to protect residential neighborhoods and noise-sensitive receptors such as schools and hospitals from potentially harmful noise sources. SBGP Noise Element Figure N-1 provides noise and land use compatibility criteria; see **Exhibit 2: Land Use Compatibility for Community Noise Exposure**.

The compatibility criteria indicate that residential land uses are considered normally acceptable with noise levels below 60 dBA Ldn and conditionally acceptable with noise levels of less than 70 dBA Ldn.

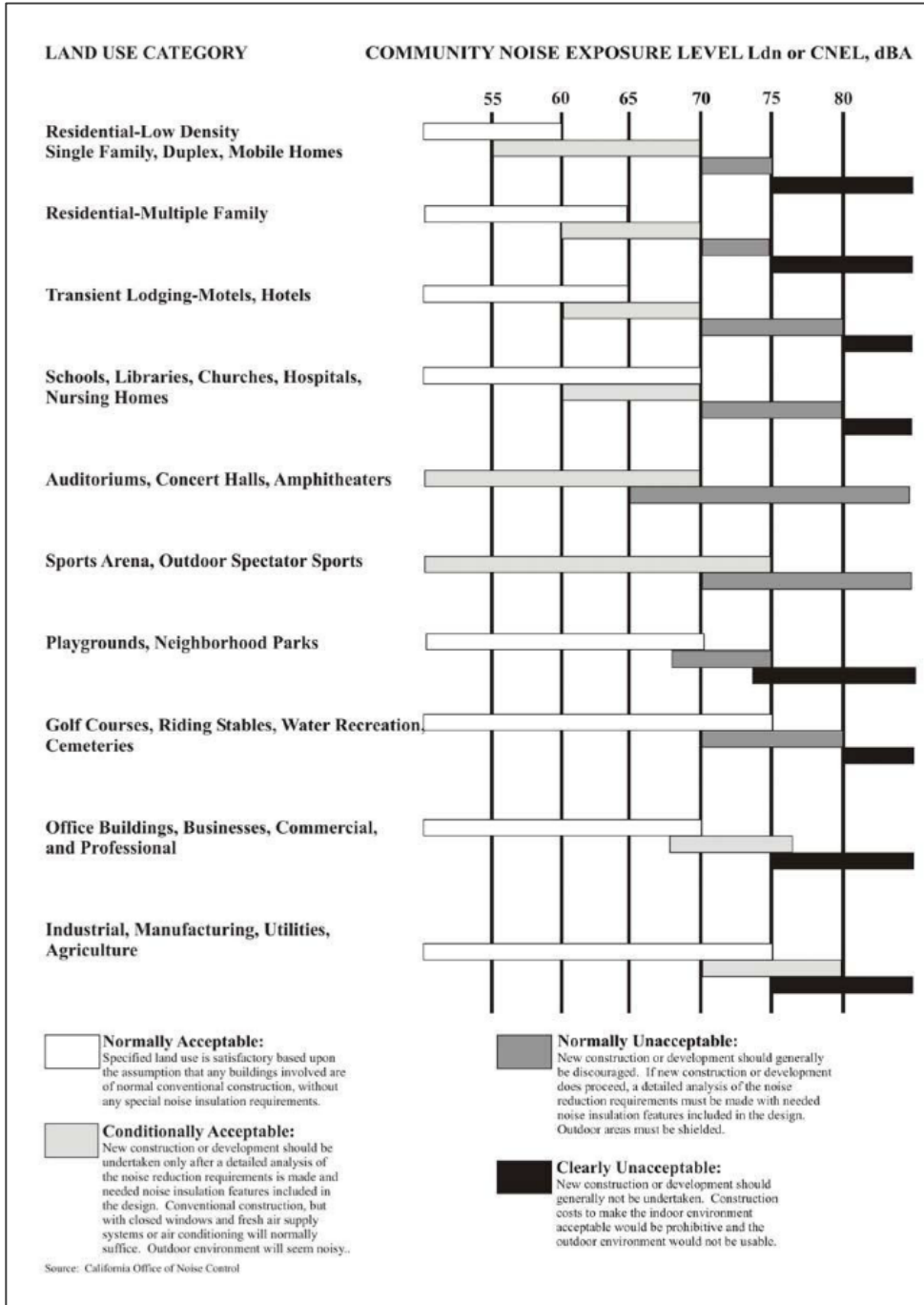
Table 1: Interior and Exterior Noise Standards identifies a maximum allowable exterior noise level of 65 dBA CNEL and a maximum interior noise level of 45 dBA CNEL for residential developments. While the City specifically identifies an exterior noise level limit for noise-sensitive residential land uses such as hotels, hospitals, schools, and parks, the City does not maintain exterior noise standards for non-noise sensitive land uses such as industrial uses, among others.

City of San Bernardino Municipal Code

The City of San Bernardino Noise Control Ordinance (Municipal Code (SBMC) Chapter 8.54) includes regulations to control the negative effects of nuisance noise, but it does not identify specific exterior noise level limits. In addition, SBMC Chapter 19.20 contains exterior and interior noise level standards for residential land uses.

The Noise Control Ordinance states that *“when such noises are an accompaniment and effect of a lawful business, commercial or industrial enterprise carried on in an area zoned for that purpose...these activities shall be exempt”* (SBMC § 8.54.060(B)). However, due to the Project’s proximity to residential land uses, SBMC § 19.20.030.15(A) limits the Project’s operational stationary-source exterior noise level to 65 dBA $L_{eq(1-hr)}$ for residential land uses. Further, SBMC § 8.54.070, Disturbances from Construction Activity, establishes limited hours of construction activities, as follows: *“no person shall be engaged or employed, or cause any person to be engaged or employed, in any work of construction, erection, alteration, repair, addition, movement, demolition, or improvement to any building or structure except within the hours of 7:00 a.m. and 8:00 p.m.”* While the City establishes limits to the hours during which construction activity may take place, it does not identify specific construction-related noise level limits.

Exhibit 2: Land Use Compatibility for Community Noise Exposure.



Source: City of San Bernardino, *City of San Bernardino General Plan Figure N-1: Land Use Compatibility for Community Noise Exposure*, 2005.

Table 1: Interior and Exterior Noise Standards			
Land Use		CNEL (dBA)	
Categories	Uses	Interior¹	Exterior²
Residential	Single and multi-family, duplex	45 ³	65
	Mobile homes	----	65 ⁴
Commercial	Hotel, motel, transient housing	45	----
	Commercial retail, bank, restaurant	55	----
	Office building, research and development, professional offices	50	----
	Amphitheater, concert hall, auditorium, movie theater	45	----
	Gymnasium (Multipurpose)	50	----
	Sports Club	55	----
	Manufacturing, warehouse, wholesale, utilities	65	----
	Movie Theaters	45	----
Institutional/Public	Hospital, school classrooms/playgrounds	45	65
	Church, library	45	----
Open Space	Parks	---	65
<p>Notes:</p> <ol style="list-style-type: none"> Indoor environment excluding: bathrooms, kitchens, toilets, closets, and corridors Outdoor environment limited to: <ul style="list-style-type: none"> Private yard of single-family dwellings Multi-family private patios or balconies accessed from within the dwelling units (balconies 6.0 feet deep or less are exempt) Mobile home parks Park picnic areas School playgrounds Hospital patios Noise level requirement with closed windows, mechanical ventilation or other means of natural ventilation shall be provided as per Uniform Building Code § 1205. Exterior noise levels should be such that interior noise levels will not exceed 45 dBA CNEL. <p>Source: City of San Bernardino, <i>City of San Bernardino General Plan Noise Element Table N-3, State of California Interior and Exterior Noise Standards, 2005.</i></p>			

EXISTING ENVIRONMENTAL SETTING

Mobile noise sources, especially cars and trucks, are the City’s most common and significant noise sources. The existing mobile noise sources in the Project area are the motor vehicles traveling on East Highland Avenue and North Golden Avenue. The primary stationary noise sources in the Project vicinity are those associated with the surrounding residential and commercial uses. Such stationary noise sources include mechanical equipment (e.g., heating, ventilation, and air conditioning [HVAC] equipment), idling vehicles, music playing, dogs barking, and people talking. The noise associated with these sources may represent a single-event noise occurrence or short-term noise.

CONSTRUCTION NOISE

Construction noise typically occurs intermittently and varies depending on the nature or phase of construction. Noise generated by construction equipment can reach high levels. During construction, exterior noise levels could affect the noise-sensitive receptors near the construction site. Construction activities would include demolition, site preparation, grading, building construction, paving, and architectural coating. Such activities may require graders, dozers, and tractors during site preparation and grading; cranes, forklifts, generators, tractors, and welders during building construction; pavers, rollers, mixers, tractors, and paving equipment during paving; and air compressors during architectural coating. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 to 4 minutes at lower power settings. Other primary sources of acoustical disturbance would be random incidents, which would last less than one minute (such as dropping large pieces of equipment or the hydraulic movement of machinery lifts). Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. Typical noise levels associated with individual construction equipment are listed in **Table 2: Typical Construction Noise Levels**.

Equipment	Typical Noise Level (dBA) at 50 feet from Source	Typical Noise Level (dBA) at 100 feet from Source¹
Air Compressor	80	74
Backhoe	80	74
Compactor	82	76
Concrete Mixer	85	79
Concrete Pump	82	76
Concrete Vibrator	76	70
Crane, Mobile	83	77
Dozer	85	79
Generator	82	76
Grader	85	79
Jack Hammer	88	82
Loader	80	74
Paver	85	79
Pneumatic Tool	85	79
Pump	77	71
Roller	85	79
Saw	76	70
Shovel	82	76
Truck	84	78
<p>Note:</p> <p>1. Calculated using the inverse square law formula for sound attenuation: $dBA_2 = dBA_1 + 20\log(d_1/d_2)$ Where: dBA_2 = estimated noise level at receptor; dBA_1 = reference noise level; d_1 = reference distance; d_2 = receptor location distance.</p>		
<p>Source: Federal Transit Administration, <i>Transit Noise and Vibration Impact Assessment Manual</i>, September 2018.</p>		

The City does not administer noise level standards for construction activities. However, this analysis conservatively uses the Federal Transit Administration (FTA)'s threshold of 80 dBA (8-hour L_{eq}) for residential uses and 85 dBA (8-hour L_{eq}) for commercial uses to evaluate construction noise.³

Following FTA's methodology for quantitative construction noise assessments, Federal Highway Administration's (FHWA's) Roadway Construction Noise Model (RCNM) was used to predict construction noise at the nearest noise-sensitive receptors (i.e., the multi-family residential and commercial uses adjacent/immediately to the east of the Project site) consistent with the methodologies in the FTA *Transit Noise and Vibration Impact Assessment Manual* (September 2018) (FTA Noise and Vibration Manual). **Table 3: Project Construction Noise Levels** shows the estimated exterior construction noise levels at the nearest receptors to the east of the Project site. Following FTA methodology, when calculating construction noise, all equipment is assumed to operate at the center of the Project site because equipment would operate throughout the Project site and not at a fixed location for extended periods of time. Therefore, the distance used in the RCNM model were 200 feet for the nearest residential and commercial uses located to the east.

Table 3: Project Construction Noise Levels

Construction Phase	Receptor Location			Worst Case Modeled Exterior Noise Level (dBA L_{eq})	Noise Threshold (dBA L_{eq})	Exceeded?
	Land Use	Direction	Distance (feet) ¹			
Demolition	Residential	East	200	72.5	80	No
	Commercial	East	200	72.5	85	No
Site Preparation	Residential	East	200	65.6	80	No
	Commercial	East	200	65.6	85	No
Grading	Residential	East	200	71.6	80	No
	Commercial	East	200	71.6	85	No
Building Construction	Residential	East	200	71.7	80	No
	Commercial	East	200	71.7	85	No
Trenching	Residential	North	255	68.2	80	No
	Commercial	North	60	80.8	85	No
Paving	Residential	East	200	69.6	80	No
	Commercial	East	200	69.6	85	No
Architectural Coating	Residential	East	200	61.6	80	No
	Commercial	East	200	61.6	85	No

1. Per the methodology described in the FTA Noise and Vibration Manual (September 2018), distances are measured from the property line the nearest receptors to the center of the Project construction site.

2. The City does not have a quantitative noise threshold for construction. Therefore, the construction noise thresholds from the FTA Noise and Vibration Manual (September 2018) are conservatively used for this analysis.

Source: Federal Highway Administration, *Roadway Construction Noise Model*, 2006. Refer to [Appendix A: RCNM Modeling Results](#) for noise modeling results.

³ Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, Table 7-2, Page 179, September 2018.

As indicated in **Table 3**, Project construction noise would be below the FTA noise threshold for residential/non-residential land uses. In addition, although construction noise levels may exceed the area's existing ambient levels, construction would be temporary and would not result in a permanent increase in ambient noise levels in the area. Project construction would also be prohibited between the hours of 8:00 p.m. and 7:00 a.m. in compliance with SBMC § 8.54.070. Therefore, construction noise impacts would be less than significant.

OPERATIONAL NOISE

Project implementation would create new noise sources in the Project vicinity. The Project's primary noise sources that could potentially impact nearby noise-sensitive land uses include mechanical equipment (e.g., HVAC, etc.), activities associated with loading/unloading storage items, parking areas, trash/recycling truck pickups, and off-site traffic noise. The Project's hours of operation would be restricted to 7:00 a.m. to 9:00 p.m., Monday through Saturday, and 9:00 a.m. to 9:00 p.m. on Sundays in compliance with SBMC Chapter 19.06 regulations for mini-storage facilities.

Mechanical Equipment. Potential stationary noise sources related to long-term Project operations include mechanical equipment (e.g., HVAC equipment). The nearest receptors are the multi-family residential and commercial uses located approximately 370 feet to the east of the nearest mechanical equipment location on the Project site. Mechanical equipment typically generates noise levels of approximately 52 dBA at 50 feet.⁴ Noise has a decay rate due to distance attenuation, which is calculated based on the Inverse Square Law of sound propagation. Based upon the Inverse Square Law, sound levels decrease by 6 dBA for each doubling of distance from the noise source. As a result, mechanical equipment noise would attenuate to 34.6 dBA at the nearest noise-sensitive residential uses located approximately 370 feet from proposed on-site mechanical equipment. The Project's mechanical equipment noise would be below the City's most stringent exterior and interior noise standards for residential uses of 65 dBA CNEL and 45 dBA CNEL, respectively.⁵ Therefore, the Project would result in a less than significant impact concerning mechanical equipment noise levels.

Storage Loading/Unloading Activities. Self-storage unit leasers would commute to the site via private vehicles or small single-unit truck rentals to drop off or pick up their personal items from the storage units and then exit the site. Access to the site would occur along East Highland Avenue. During storage loading/unloading activities, noise would be generated by car doors slamming, engines starting up, and car pass-bys range. Maximum sound levels generated by these activities range from 53 to 61 dBA at 50 feet.⁶ The nearest noise-sensitive receptors (i.e., residential land uses) to the proposed storage loading/unloading activities would be approximately 35 feet to the north. At this distance, instantaneous noise levels from storage loading/unloading activities would reach approximately 59.1

⁴ Elliott H. Berger, Rick Neitzel, and Cynthia A. Kladden, *Noise Navigator Sound Level Database with Over 1700 Measurement Values*, June 26, 2015.

⁵ Assuming an exterior-to-interior noise reduction of 25 dBA (HUD *Noise Guidebook*, 2009).

⁶ Kariel, H. G., *Noise in Rural Recreational Environments*, Canadian Acoustics 19(5), 3-10, 1991.

dB_A,⁷ which would be below the City's most stringent exterior and interior noise standards for residential uses of 65 dBA CNEL and 45 dBA CNEL, respectively. In addition, individuals would use these facilities periodically and storage activities would occur throughout the Project site, resulting in lower noise levels than these estimates. Further, noise from on-site vehicle circulation would be similar to existing noise in the Project vicinity and would be partially masked by background traffic noise from motor vehicles traveling along East Highland Avenue. Therefore, the Project would result in a less than significant impact concerning storage loading/unloading activity noise levels.

Surface Parking Lot. The Project would include 13 parking spaces in a surface parking lot in the southern portion of the Project site. Traffic and stationary noise levels associated with parking lots (e.g., engine starting up and idling, car door slamming, etc.) is typically not of sufficient volume to exceed community noise standards due to the instantaneous nature and infrequent activity in parking lots. It is also noted that parking lot noise also occurs at the adjacent properties surrounding the Project site under existing conditions. Noise from the Project's surface parking lot would be minimal. Therefore, the Project would result in a less than significant impact concerning parking lot noise levels.

Trash/Recycling Truck Pickups. The proposed Project would involve weekly trash/recycling pickups from slow-moving trucks during normal daytime hours (i.e., from 7:00 a.m. to 10:00 p.m.). Trash/recycling pickup would occur in the northwestern portion of the Project site, adjacent to self-storage Building A. Low speed truck noise results from a combination of engine, exhaust, and tire noise as well as the intermittent sounds of back-up alarms and releases of compressed air associated with truck air-brakes. Trash collection trucks typically generate noise levels of 75 dBA at distance of 50 feet from the noise source.⁸ The nearest noise-sensitive receptors (i.e., single-family residences) to the trash/recycling pickup location would be approximately 150 feet to the north. At this distance, noise levels from trash/recycling trucks would be approximately 60.4 dBA,⁹ which would be below the City's most stringent exterior and interior noise standards for residential uses of 65 dBA CNEL and 45 dBA CNEL, respectively. It is also noted that trash/recycling operations would be short-term and irregular and are considered part of standard operations in the area. In addition, these operations occur at the surrounding properties under existing conditions. Noise from trash/recycling pickups during Project operations would be below the City's noise standards and would not result in a noticeable increase over ambient levels. Therefore, the Project would result in a less than significant impact concerning trash/recycling pickup noise levels.

Mobile Traffic Noise. The Project is anticipated to generate 109 daily trips, with up to 8 trips during the a.m. peak-hour and up to 10 trips during the p.m. peak-hour.¹⁰ It is not assumed there would be

⁷ Assuming a 5 dBA reduction from the intervening self-storage buildings.

⁸ Elliott H. Berger, Rick Neitzel, and Cynthia A. Kladden, *Noise Navigator Sound Level Database with Over 1700 Measurement Values*, June 26, 2015.

⁹ Assuming a 5 dBA reduction from the perimeter wall along the northern project boundary.

¹⁰ *Draft Transportation Analysis for the Secure Space Self-Storage Project, 1300 East Highland Avenue, City of San Bernardino, County of San Bernardino, California* (Kimley-Horn, November 2021).

daily traffic for each unit on the site due to the nature of self-storage facilities. Individuals that use these facilities only commute to them periodically, as represented in the trip generation estimate.

In general, a 3-dBA increase in traffic noise is barely perceptible to people, while a 5-dBA increase is readily noticeable. Traffic volumes on Project area roadways would have to approximately double for the resulting traffic noise levels to generate a barely perceptible 3-dBA increase.¹¹ Average daily traffic (ADT) volumes along East Highland Avenue and Golden Avenue (the nearest access roadways to the Project site) are at least 17,700 ADT and 4,600 ADT, respectively.¹² As noted above, the proposed Project would result in approximately 109 daily trips, which is not enough to double the existing traffic volumes on East Highland Avenue or Golden Avenue. The proposed Project would not generate enough traffic to result in a noticeable 3-dBA increase in ambient noise levels. Therefore, the Project would result in a less than significant impact concerning mobile traffic noise levels.

VIBRATION

Increases in ground-borne vibration levels attributable to the proposed Project would be primarily associated with short-term construction-related activities. Project construction could result in varying degrees of temporary ground-borne vibration, depending on the specific construction equipment used and the operations involved.

The FTA has published standard vibration velocities for construction equipment operations. In general, the FTA architectural damage criterion for continuous vibrations (i.e., 0.2 in/sec) appears to be conservative. The types of construction vibration impacts include human annoyance and building damage. Human annoyance occurs when construction vibration rises significantly above the threshold of human perception for extended periods of time. Building damage can be cosmetic or structural. Ordinary buildings that are not particularly fragile would not experience any cosmetic damage (e.g., plaster cracks) at distances beyond 30 feet. This distance can vary substantially depending on the soil composition and underground geological layer between vibration source and receiver. In addition, not all buildings respond similarly to vibration generated by construction equipment. For example, for a building that is constructed with reinforced concrete with no plaster, the FTA guidelines show that a vibration level of up to 0.20 in/sec is considered safe and would not result in any construction vibration damage. This analysis uses the FTA architectural damage criterion for continuous vibrations at non-engineered timber and masonry buildings of 0.2 inch-per-second peak particle velocity (PPV) and human annoyance criterion of 0.4 inch-per-second PPV in accordance with Caltrans guidance¹³ to evaluate potential construction vibration impacts.

¹¹ According to the California Department of Transportation, *Technical Noise Supplement to Traffic Noise Analysis Protocol* (September 2013), it takes a doubling of traffic to create a noticeable (i.e., 3 dBA) noise increase.

¹² City of San Bernardino, *City of San Bernardino Public Works/Traffic Engineering 24-Hour Traffic Count Map 1996-2004, 2004*.

¹³ California Department of Transportation, *Transportation and Construction Vibration Guidance Manual, Table 20*, September 2013.

Table 4: Typical Construction Equipment Vibration Levels lists vibration levels at 25 feet for typical construction equipment. The nearest off-site buildings/structures are the residential and commercial buildings located adjacent to the north and east of the Project site, approximately 25 feet from Project construction activities. Groundborne vibration generated by construction equipment spreads through the ground and diminishes in magnitude with increases in distance. As indicated in **Table 4**, based on FTA data, vibration velocities from typical heavy construction equipment operations that would be used during Project construction range from 0.003 to 0.089 in/sec PPV at 25 feet from the activity source.

Table 4: Typical Construction Equipment Vibration Levels	
Equipment	Peak Particle Velocity at 25 Feet (in/sec)
Large Bulldozer	0.089
Caisson Drilling	0.089
Loaded Trucks	0.076
Rock Breaker	0.059
Jackhammer	0.035
Small Bulldozer/Tractors	0.003

Source: Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, 2018.

As shown in **Table 4**, the vibration velocities at 25 feet from construction equipment would be 0.089 in/sec PPV, which would be below the FTA’s 0.20 in/sec PPV threshold for building damage and Caltrans’ 0.4 in/sec PPV threshold for human annoyance. It is also acknowledged that construction activities would occur throughout the Project site and would not be concentrated at the point closest to the nearest off-site structures. Once operational, the proposed Project would not include vibration-generating uses or operations. Therefore, the Project would result in a less than significant impact concerning construction vibration levels.

CONCLUSION

The Project’s construction and operational noise and vibration levels would not exceed any City or FTA standards. The Project would result in less than significant construction and operational noise and vibration impacts and no mitigation is required. Therefore, the Project’s approval would not result in any significant effects relating to noise and vibration pursuant to State CEQA Guidelines Section 15332(d).

Appendix A

RCNM Modeling Results

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/11/2022
 Case Description: Site Prep

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)		Receptor	Distance	(dBA)
			Evening	Night			
Residential	Residential	1.0	1.0	1.0			
Equipment							
Estimated		Impact	Usage	Spec Lmax	Actual Lmax		
Shielding Description		Device	(%)	(dBA)	(dBA)	(feet)	(dBA)
Dozer		No	40		81.7	200.0	
0.0							

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day		Evening	
		Evening		Night		Night		Evening	
Equipment		Lmax		Leq		Lmax		Leq	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer		69.6	65.6	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	N/A
Total		69.6	65.6	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	N/A

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Commercial	Commercial	1.0	1.0	1.0

Estimated Shielding Description	Equipment		Spec	Actual	Receptor	(dBA)
	Impact	Usage	Lmax	Lmax	Distance	
	Device	(%)	(dBA)	(dBA)	(feet)	
Dozer 0.0	No	40		81.7	200.0	

		Results				Noise Limits (dBA)			
		Noise Limit Exceedance (dBA)							
Night	Day	Calculated (dBA)				Day		Evening	
		Evening				Night			
Equipment		Lmax		Leq		Lmax	Leq	Lmax	Leq
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer		69.6	65.6			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
	Total	69.6	65.6			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

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/11/2022
 Case Description: Demolition

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residential	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	200.0	0.0
Dozer	No	40		81.7	200.0	0.0
Excavator	No	40		80.7	200.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Evening	Night	
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Saw	N/A	N/A	77.5	70.5	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	N/A	N/A	69.6	65.6	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
Excavator	N/A	N/A	68.7	64.7	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	77.5	72.5	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 #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night

Commercial	Commercial	1.0	1.0	1.0		
Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	0.0	0.0
Dozer	No	40		81.7	0.0	0.0
Excavator	No	40		80.7	0.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Calculated (dBA)					Day Night Evening				
	Day		Evening			Day Night		Evening		Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Concrete Saw					-7.0	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
Dozer					-4.0	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
Excavator					-4.0	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			0.0	0.0	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

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/11/2022
 Case Description: Grading

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residential	Residential	1.0	1.0	1.0

Estimated Shielding Description	Equipment		Spec	Actual	Receptor	(dBA)
	Impact Device	Usage (%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	
Dozer 0.0	No	40		81.7	200.0	
Excavator 0.0	No	40		80.7	200.0	
Grader 0.0	No	40	85.0		200.0	

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day		Evening	
		Evening		Night		Night		Evening	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer N/A	N/A	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A
Excavator N/A	N/A	68.7	64.7	N/A	N/A	N/A	N/A	N/A	N/A
Grader N/A	N/A	73.0	69.0	N/A	N/A	N/A	N/A	N/A	N/A
Total		73.0	71.6	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	Daytime	Baselines (dBA)	
			Evening	Night
Commercial	Commercial	1.0	1.0	1.0

Equipment

Estimated Shielding Description	Impact	Usage Device (%)	Spec	Actual	Receptor	(dBA)
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	
Dozer 0.0	No	40		81.7	200.0	
Excavator 0.0	No	40		80.7	200.0	
Grader 0.0	No	40	85.0		200.0	

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day		Evening	
		Evening		Night		Night		Evening	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq								
Dozer N/A	N/A	N/A	N/A	69.6	65.6	N/A	N/A	N/A	N/A
Excavator N/A	N/A	N/A	N/A	68.7	64.7	N/A	N/A	N/A	N/A
Grader N/A	N/A	N/A	N/A	73.0	69.0	N/A	N/A	N/A	N/A
Total		N/A	N/A	73.0	71.6	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

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/11/2022
 Case Description: Building Construction

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	1.0	1.0	1.0

Estimated Shielding Description	Equipment		Spec	Actual	Receptor	(dBA)
	Impact Device	Usage (%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	
Dozer 0.0	No	40		81.7	200.0	
Tractor 0.0	No	40	84.0		200.0	
Crane 0.0	No	16		80.6	200.0	
Generator 0.0	No	50		80.6	200.0	

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day		Evening	
		Evening		Night		Night		Evening	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer N/A	N/A	N/A	N/A	69.6	65.6	N/A	N/A	N/A	N/A
Tractor N/A	N/A	N/A	N/A	72.0	68.0	N/A	N/A	N/A	N/A
Crane				68.5	60.6	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
Generator				68.6	65.6	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
		Total		72.0	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

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)			Spec	Actual	Receptor	Distance	(dBA)
		Daytime	Evening	Night					
Commercial	Commercial	1.0	1.0	1.0					
Equipment									
Estimated		Impact	Usage	Lmax	Lmax				
Shielding		Device	(%)	(dBA)	(dBA)				
Dozer		No	40		81.7		200.0		
0.0									
Tractor		No	40	84.0			200.0		
0.0									
Crane		No	16		80.6		200.0		
0.0									
Generator		No	50		80.6		200.0		
0.0									

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day		Evening	
		Evening		Night		Night		Evening	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer		69.6	65.6	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	N/A
Tractor		72.0	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	N/A

Crane				68.5	60.6	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
Generator				68.6	65.6	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
		Total		72.0	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

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/11/2022
 Case Description: Arch Coating

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)		Receptor	Distance	(dBA)
			Evening	Night			
Residential	Residential	1.0	1.0	1.0			
Equipment							
Estimated		Impact	Usage	Spec	Actual		
Shielding Description		Device	(%)	Lmax (dBA)	Lmax (dBA)	(feet)	(dBA)
Compressor (air)		No	40		77.7	200.0	
0.0							

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day		Evening	
		Evening		Night		Night		Evening	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		65.6	61.6	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	N/A
Total		65.6	61.6	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	N/A

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Commercial	Commercial	1.0	1.0	1.0

Estimated Shielding Description	Equipment		Spec	Actual	Receptor	(dBA)
	Impact Device	Usage (%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	
Compressor (air) 0.0	No	40		77.7	200.0	

		Results				Noise Limits (dBA)				
		Noise Limit Exceedance (dBA)								
Night	Day	Calculated (dBA)				Day		Evening		
		Evening		Night		Night		Evening		
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
N/A	N/A	N/A	N/A	65.6	61.6	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	N/A	N/A	N/A	Total	65.6	61.6	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	

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/11/2022
 Case Description: Paving

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residential	Residential	1.0	1.0	1.0

Equipment

Estimated Shielding Description	Impact Device	Usage (%)	Spec	Actual	Receptor	(dBA)
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	
Tractor 0.0	No	40	84.0		200.0	
Paver 0.0	No	50		77.2	200.0	
Roller 0.0	No	20		80.0	200.0	

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day		Evening	
		Evening		Night		Night		Evening	
Equipment		Lmax		Leq		Lmax		Leq	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Tractor N/A	N/A	72.0	68.0	N/A	N/A	N/A	N/A	N/A	N/A
Paver N/A	N/A	65.2	62.2	N/A	N/A	N/A	N/A	N/A	N/A
Roller N/A	N/A	68.0	61.0	N/A	N/A	N/A	N/A	N/A	N/A
Total		72.0	69.6	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	Daytime	Baselines (dBA)	
			Evening	Night
Commercial	Commercial	1.0	1.0	1.0

Estimated Shielding Description	Equipment		Spec	Actual	Receptor	(dBA)
	Impact	Usage	Lmax	Lmax	Distance	
	Device	(%)	(dBA)	(dBA)	(feet)	
Tractor 0.0	No	40	84.0		200.0	
Paver 0.0	No	50		77.2	200.0	
Roller 0.0	No	20		80.0	200.0	

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day		Evening	
		Evening		Night		Night		Evening	
Equipment		Lmax		Leq		Lmax		Leq	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Tractor N/A	N/A	N/A	N/A	72.0	68.0	N/A	N/A	N/A	N/A
Paver N/A	N/A	N/A	N/A	65.2	62.2	N/A	N/A	N/A	N/A
Roller N/A	N/A	N/A	N/A	68.0	61.0	N/A	N/A	N/A	N/A
Total		N/A	N/A	72.0	69.6	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

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/31/2022
 Case Description: Trenching

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residential	Residential	1.0	1.0	1.0

Estimated Shielding Description	Equipment		Spec	Actual	Receptor	(dBA)
	Impact Device	Usage (%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	
Paver 0.0	No	50		77.2	255.0	
Tractor 0.0	No	40	84.0		255.0	
Paver 0.0	No	50		77.2	255.0	
Roller 0.0	No	20		80.0	255.0	

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day		Evening	
		Evening		Night		Night		Evening	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver N/A	N/A	N/A	N/A	63.1	60.1	N/A	N/A	N/A	N/A
Tractor N/A	N/A	N/A	N/A	69.8	65.9	N/A	N/A	N/A	N/A

APPENDIX 5: AIR QUALITY ANALYSIS



TECHNICAL MEMORANDUM

To: Mike Rosales, City of San Bernardino
From: Rita Garcia, Project Manager, and Ryan Chiene, Technical Manager
Date: January 31, 2022
Subject: 1300 East Highland Avenue Self-Storage Project – Air Quality Analysis

PURPOSE

The purpose of this Technical Memorandum (TM) is to evaluate the air quality emissions associated with construction and operations of the proposed Self-Storage Project (Project), at 1300 East Highland Avenue, City of San Bernardino (City), California. This TM has been undertaken as supporting documentation to substantiate the appropriateness of a Class 32 Categorical Exemption (CE) under the California Environmental Quality Act (CEQA).

PROJECT DESCRIPTION

The approximately 4.23-acre subject property consists of four parcels (i.e., APNs 0150-471-04-0000, 0150-471-05-0000, 0150-471-06-0000, 0150-471-07-0000) situated northeast of the East Highland Avenue at North Golden Avenue intersection, at 1300 East Highland Avenue, City of Highland. The Project site is partially improved with remnants of a burned down restaurant, a small unoccupied building ancillary to the former restaurant, and associated surface parking lots, while the remainder of the Project site is vacant. The surrounding land uses include single-family residential to the north, Highland Avenue and commercial and religious uses to the south, multi-family residential and commercial uses to the east, and commercial uses and vacant lots to the west. The sensitive receptors nearest the Project site are the single-family residential uses located adjacent/immediately to the north and multi-family residential uses located adjacent/immediately to the east.

The Project proposes to demolish all existing onsite improvements and, in their place, construct an approximately 92,110-square foot (SF) self-storage facility; see **Exhibit 1: Conceptual Site Plan**. Pursuant to City of San Bernardino Public Works Conditions of Approval (COA) (see **Appendix 7**), the Project is required to dedicate property and either construct or pay an in-lieu fee for various offsite street improvements, as discussed in detail below.

Property Dedication (approximately 0.07 acre or 3,238 SF): Along the Highland Avenue property frontage, the Project is required to dedicate 8.75 feet for street right-of-way (ROW) (approximately 370 feet) to provide the distance from street centerline (CL) to property line (PL) required for a Major Arterial (i.e., 50 feet total one-half width ROW). Accounting for this dedication, the net Project site

would total approximately 4.15 acres. This condition also requires that the curb line be relocated 4.0 feet and placed 36 feet from street CL. The Project will pay an in-lieu fee to the City for the curb line relocation (as well as construction of new curb, gutter, sidewalk, Bike Lane, and bus stop pad), for future construction by the City. However, for a conservative approach, this study considers these future improvements in the impact analyses.

Offsite Street Improvements (within ROW inclusive of dedication): The offsite improvements described below would occur on approximately 0.43 acre (approximately 18,740 SF). Accounting for these offsite improvements, the Project site would total approximately 4.6 acres.

- Two new driveways would be constructed along the Project frontage. Additionally, the Project would rehabilitate Highland Avenue from street CL to PL I (i.e., one-half width ROW). The new curb, gutter, and sidewalk along the Project frontage are future construction by the City.
- A type II Bike Lane along the Project frontage and the bus stop street pad would be future construction by the City.
- The existing street light would be removed and replaced with two new LED street lights in accordance with City standards.
- The existing overhead power line along the Project frontage would be undergrounded for approximately 450 linear feet, from the Project site's eastern property line to approximately 80 feet beyond western property line.

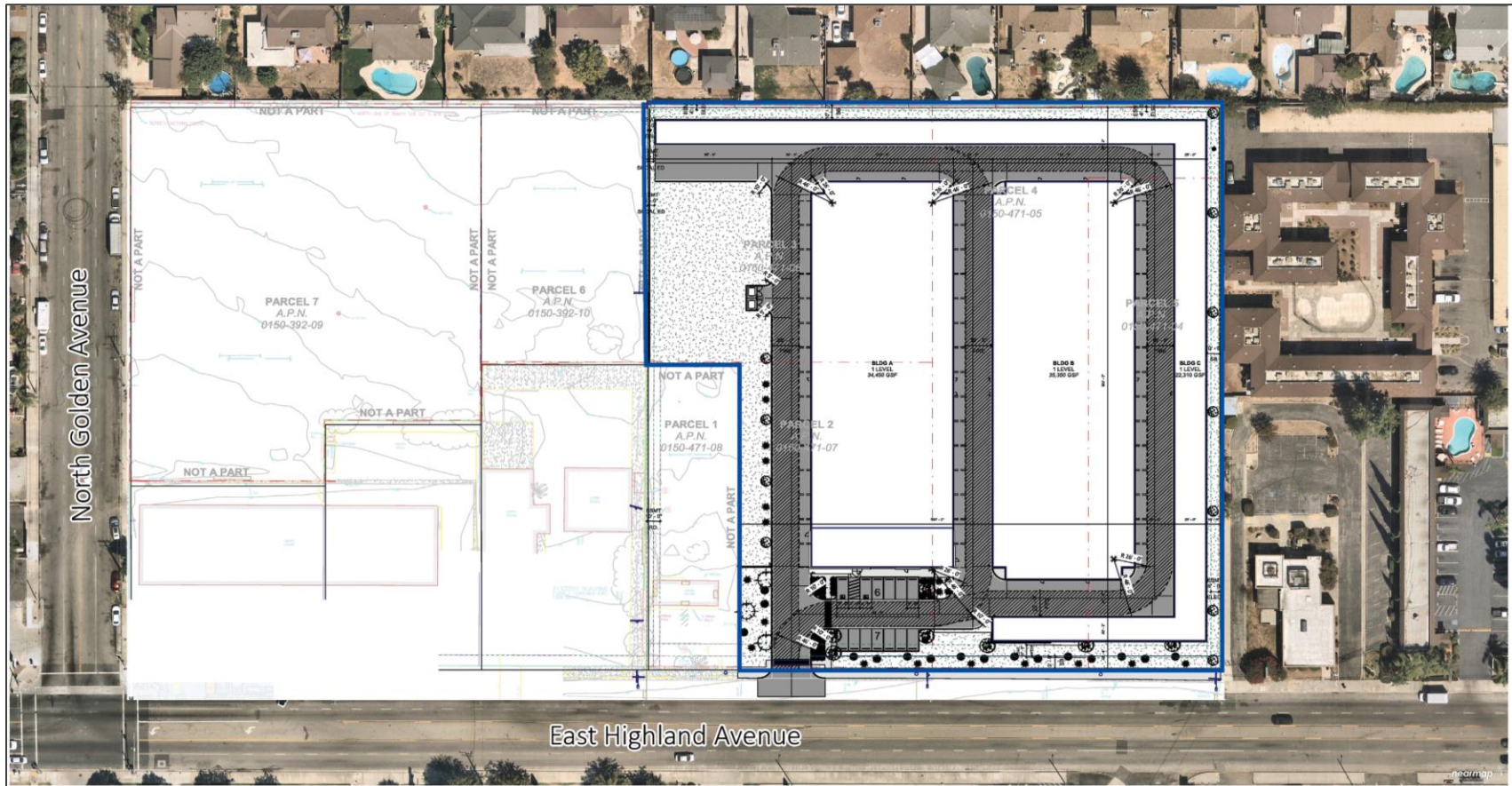
Project construction is expected to occur over approximately 12 months, beginning July 2022, and ending July 2023.

City of San Bernardino General Plan (SBGP) Figure LU-2, General Plan Land Use Map, depicts the City's land use designations and indicates the Project site is designated Commercial - General (CG).¹ The Zoning Map of the City of San Bernardino depicts the City's zoning and indicates the Project site is zoned CG-1 (Commercial General).²

¹ City of San Bernardino. (2005). *City of San Bernardino General Plan Figure LU-1, Foundation Component Plan*. San Bernardino, CA: City of San Bernardino.

² City of San Bernardino. (2019). *City of San Bernardino Public Zoning Map*. San Bernardino, CA: City of San Bernardino.

Exhibit 1: Conceptual Site Plan



Source: Rozen Design Solutions 2021

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT THRESHOLDS

The South Coast Air Quality Management District (South Coast AQMD) CEQA Air Quality Handbook provides significance thresholds for volatile organic compounds (VOC) (also referred to as reactive organic gases [ROG]), nitrogen oxides (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), particulate matter 10 microns or less in diameter (PM₁₀), and particulate matter 2.5 microns or less in diameter (PM_{2.5}). The thresholds apply to both Project construction and operations within the South Coast AQMD jurisdictional boundaries. However, ultimately the lead agency determines the thresholds of significance for impacts. If a project proposes development in excess of the established thresholds outlined in **Table 1: South Coast Air Quality Management District Significance Thresholds**, a significant air quality impact could occur and additional analysis is warranted to fully assess the significance of impacts.

Table 1: South Coast Air Quality Management District Significance Thresholds		
Pollutant	Mass Daily Thresholds (pounds per day)	
	Construction	Operations
Nitrogen Oxides (NO _x)	100	55
Volatile Organic Compounds (VOC) ¹	75	55
Particulate Matter up to 10 Microns (PM ₁₀)	150	150
Particulate Matter up to 2.5 Microns (PM _{2.5})	55	55
Sulphur Oxides (SO _x)	150	150
Carbon Monoxide (CO)	550	550
Notes:		
1. VOCs and reactive organic gases (ROGs) are subsets of organic gases that are emitted from the incomplete combustion of hydrocarbons or other carbon-based fuels. Although they represent slightly different subsets of organic gases, they are used interchangeably for the purposes of this analysis.		
Source: South Coast Air Quality Management District, South Coast AQMD Air Quality Significance Thresholds, April 2019.		

CONSTRUCTION EMISSIONS

Project construction activities would generate short-term emissions of criteria air pollutants. The criteria pollutants of primary concern within the Project area are ozone- precursor pollutants (i.e., ROG and NO_x), PM₁₀, and PM_{2.5}. Construction-generated emissions are short-term and of temporary duration, lasting only as long as construction activities occur, but would be considered a significant air quality impact if the volume of pollutants generated exceeds the South Coast AQMD's thresholds of significance. Construction results in the temporary generation of emissions resulting from site grading, road paving, motor vehicle exhaust associated with construction equipment and worker trips, and the movement of construction equipment, especially on unpaved surfaces. Emissions of airborne particulate matter are largely dependent on the amount of ground disturbance associated with site preparation activities, as well as weather conditions and the appropriate application of water.

As noted above, the duration of the Project's construction activities is estimated to be approximately 12 months, beginning in July 2022 and ending July 2023. The Project's construction-generated emissions were calculated using CARB-approved California Emissions Estimator Model (CalEEMod)

version 2020.4.0, which models emissions for land use development projects, based on typical construction requirements. See **Appendix A: Air Quality Emissions Data** for more information regarding the construction assumptions used in this analysis.

Table 2: Project Construction Emissions provides the Project’s estimated maximum daily construction-related criteria pollutant emissions and indicates these would remain below South Coast AQMD thresholds. Therefore, the Project’s construction-related air emissions would be less than significant and no mitigation is required. Notwithstanding, the proposed Project would be subject to compliance with South Coast AQMD Rules 402, 403, and 1113, which prohibit nuisances, require dust control measures, and limit VOC content in paints, respectively. Compliance with South Coast AQMD rules would further minimize the Project’s construction-related emissions.

Table 2: Project Construction Emissions						
Construction Year	Emissions (pounds per day)¹					
	ROG	NO_x	CO	SO₂	PM₁₀	PM_{2.5}
2022	2.81	29.82	22.22	0.06	14.06	7.69
2023	15.36	17.03	21.97	0.04	1.94	1.05
Total	18.17	46.85	44.19	0.10	16.00	8.74
South Coast AQMD Threshold	75	100	550	150	150	55
South Coast AQMD Threshold Exceeded?	No	No	No	No	No	No
Notes:						
1. Emissions were calculated using the California Emissions Estimator Model (CalEEMod) version 2020.4.0, as recommended by the South Coast AQMD. Worst-case seasonal maximum daily emissions are reported.						

OPERATIONAL EMISSIONS

Operational emissions are typically associated with mobile sources (i.e., motor vehicle use) and area sources (i.e., landscape maintenance equipment, hearths, consumer products, and architectural coatings). Energy source emissions would be generated from electricity and natural gas (non-hearth) usage. **Table 3: Operational Emissions** provides the Project’s estimated operational criteria pollutant emissions and indicates these would remain below South Coast AQMD thresholds. Therefore, the Project’s operational-related impacts would be less than significant and no mitigation is required.

Source	Emissions (pounds per day) ¹					
	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	2.09	<1	0.01	<1	<1	<1
Energy	<1	0.08	0.07	<1	<1	<1
Mobile	0.40	0.59	4.23	<1	0.92	0.25
Total	2.49	0.67	4.31	<1	0.92	0.25
South Coast AQMD Threshold	55	55	550	150	150	55
South Coast AQMD Threshold Exceeded?	No	No	No	No	No	No

Notes:
 1. Emissions were calculated using the California Emissions Estimator Model (CalEEMod) version 2020.4.0, as recommended by the South Coast AQMD. Worst-case seasonal maximum daily emissions are reported.

CONSTRUCTION LOCALIZED EMISSIONS

The sensitive receptors nearest the Project site are single-family residential uses located adjacent/immediately to the north and multi-family residential uses located adjacent/immediately to the east. To determine potential impacts to sensitive receptors, the South Coast AQMD recommends addressing Localized Significance Thresholds (LSTs) for construction. LSTs were developed in response to South Coast AQMD Governing Boards' Environmental Justice Enhancement Initiative (I-4). The South Coast AQMD provided the Final Localized Significance Threshold Methodology (dated June 2003 [revised 2008]) for guidance. The LST methodology assists lead agencies in analyzing localized impacts associated with project-specific level analyses.

Since CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily soil disturbance activity possible for each piece of equipment, **Table 4: Equipment-Specific Grading Rates** is used to determine the maximum daily disturbed acreage for comparison to LSTs.

Construction Phase	Equipment Type	Equipment Quantity	Acres Graded per 8-Hour Day	Operating Hours per Day	Acres Graded per Day
Grading	Crawler Tractor	3	1.0	8	3.0
	Graders	1	0.5	8	0.5
	Rubber-Tired Dozers	1	0.5	8	0.5
	Scrapers	0	0	0	0
Total Acres Graded per Day					4.0

Source: CalEEMod version 2020.4.0

For this Project, the appropriate source receptor area (SRA) for the localized significance thresholds is the Central San Gabriel Valley (SRA 34) area since this area includes the Project site. LSTs apply to NO_x, CO, PM₁₀, and PM_{2.5}. The South Coast AQMD produced look-up tables for projects that disturb areas less than or equal to 5.0 acres. Based on the daily equipment modeled in CalEEMod, Project construction is anticipated to disturb approximately 4.0 acres in a single day.

The South Coast AQMD's methodology indicates that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs." Therefore, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered. The sensitive receptors nearest the Project site are the single-family residential uses located adjacent/immediately to the north and multi-family residential uses located adjacent/immediately to the east. LST thresholds are provided for distances to sensitive receptors of 25, 50, 100, 200, and 500 meters. Therefore, LSTs for receptors located at 25 meters were utilized in this analysis.

Table 5: Localized Significance of Emissions, provides the Project's estimated construction-related localized emissions on the peak day of construction and shows emissions concentrations at nearby sensitive receptors would remain below South Coast AQMD thresholds. Therefore, the Project would result in a less than significant impact concerning LSTs during construction activities and no mitigation is required.

OPERATIONAL LOCALIZED EMISSIONS

According to the South Coast AQMD localized significance threshold methodology, operational LSTs apply to on-site sources. LSTs for receptors located at 25 meters for SRA 34 were utilized in this analysis. The 4-acre LST threshold was conservatively used for the 4.6-acre Project site. The operational emissions shown in **Table 5** include all on-site Project-related stationary sources (i.e., area and energy sources). **Table 5** shows the Project's maximum daily operational pollutant emissions at nearby sensitive receptors would remain below South Coast AQMD thresholds. Therefore, the Project would result in a less than significant impact concerning LSTs during operations and no mitigation is required.

Table 5: Localized Significance of Emissions				
Source/Activity	Emissions (pounds per day)¹			
	NO_x	CO	PM₁₀	PM_{2.5}
Construction Emissions				
Demolition 2022	25.72	20.59	3.87	1.55
Site Preparation 2022	20.94	11.64	6.50	3.80
Grading 2022	20.86	15.27	3.97	2.33
Building Construction 2022	15.62	16.36	0.81	0.76
Building Construction 2023	14.38	16.24	0.70	0.66
Trenching 2023	6.65	7.71	0.39	0.36
Paving 2023	8.79	12.19	0.44	0.40
Architectural Coating 2023	1.30	1.81	0.07	0.07
<i>Maximum Daily Emissions</i>	<i>25.72</i>	<i>20.59</i>	<i>6.50</i>	<i>3.80</i>
South Coast AQMD Localized Screening Threshold (4 acres of disturbance at 25 meters)	237	1,488	12	7
Exceed South Coast AQMD Threshold?	No	No	No	No
Operational Emissions				
On-Site Emissions (Area + Energy Sources)	0.08	0.07	<1	<1
South Coast AQMD Localized Screening Threshold (5 acres at 25 meters)	270	1,746	4	2
Exceed South Coast AQMD Threshold?	No	No	No	No
Source: CalEEMod version 2020.4.0. Refer to Appendix A for model data outputs.				

CARBON MONOXIDE HOTSPOTS

An analysis of CO “hot spots” is needed to determine whether a project’s change in the level of service (LOS) at an intersection could result in exceedances of the National Ambient Air Quality Standards (NAAQS) or California Ambient Air Quality Standards (CAAQS). It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when vehicles are idling at intersections. Vehicle emissions standards have become increasingly stringent in the last 20 years. Currently, the CO standard in California is a maximum of 3.4 grams per mile for passenger cars (requirements for certain vehicles are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations have steadily declined.

Accordingly, with the steadily decreasing CO emissions from vehicles, even very busy intersections do not result in exceedances of the CO standard. An analysis prepared for CO attainment in the South Coast Air Basin by the South Coast AQMD can assist in evaluating the potential for CO exceedances. CO attainment was thoroughly analyzed as part of the South Coast AQMD’s 2003 Air Quality

Management Plan (AQMP). The Basin was re-designated as attainment in 2007 and is no longer addressed in the South Coast AQMD's AQMP.

The 2003 AQMP is the most recent version that addresses CO concentrations. As part of the South Coast AQMD *CO Hotspot Analysis*, the Wilshire Boulevard/Veteran Avenue intersection, one of the most congested intersections in Southern California with an average daily traffic (ADT) volume of approximately 100,000 vehicles per day, was modeled for CO concentrations. This modeling effort identified a CO concentration high of 4.6 parts per million (ppm), which is well below the 35 ppm NAAQS. The Project is anticipated to generate 109 daily vehicle trips³, thus, would not produce the volume of traffic required to generate a CO hot spot in the context of South Coast AQMD's *CO Hotspot Analysis*. As the CO hotspots were not experienced at the Wilshire Boulevard/Veteran Avenue intersection even as it accommodates 100,000 vehicles daily, it can be reasonably inferred that CO hotspots would not be experienced at any nearby intersections, as the Project would generate only 109 daily vehicle trips. Therefore, the Project would result in a less than significant impact concerning a CO hot spot and no mitigation is required.

CONCLUSION

The Project's construction and operational emissions would not exceed any South Coast AQMD thresholds, CAAQS, or NAAQS. The Project would result in less than significant construction and operational air quality impacts and no mitigation is required. Therefore, the Project's approval would not result in any significant effects relating to air quality pursuant to State CEQA Guidelines Section 15332(d).

³ Kimley-Horn. (November 2021). Secure Space Self-Storage Project Traffic Scope Approval Form and Draft Trip Generation and Vehicle Miles Traveled Technical Memorandum. San Diego, CA.

Appendix A

Air Quality Emissions Data

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**1300 East Highland Avenue
San Bernardino-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	92.11	1000sqft	2.11	92,110.00	0
Other Asphalt Surfaces	1.70	Acre	1.70	74,052.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0
City Park	0.67	Acre	0.67	29,185.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - land use
- Construction Phase - anticipated construction schedule
- Off-road Equipment - anticipated consutrction
- Demolition -
- Grading - Based on grading estimates
- Vehicle Trips - per trip gen memo
- Construction Off-road Equipment Mitigation - SCAQMD rule compliance
- Water Mitigation -
- Waste Mitigation - per AB 939
- Off-road Equipment - Based on construction estimates
- Trips and VMT - Construction estimates
- Architectural Coating - Construction estimates
- Area Coating - Based on construction estimates

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	4,755.00	3,710.00
tblAreaCoating	Area_Parking	4755	3710
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	160.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	20.00
tblGrading	AcresOfGrading	20.00	15.00
tblGrading	MaterialExported	0.00	1,200.00
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblTripsAndVMT	VendorTripNumber	33.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	84.00	77.00
tblTripsAndVMT	WorkerTripNumber	17.00	15.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	1.18
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	1.18
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	1.18

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.8099	29.6235	22.2202	0.0570	13.0408	1.2841	14.0568	6.7597	1.1949	7.6944	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037
2023	15.3571	16.9572	21.9661	0.0445	1.2205	0.7835	2.0041	0.3281	0.7415	1.0696	0.0000	4,352.3476	4,352.3476	0.6622	0.1071	4,400.8256
Maximum	15.3571	29.6235	22.2202	0.0570	13.0408	1.2841	14.0568	6.7597	1.1949	7.6944	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.8099	29.6235	22.2202	0.0570	5.6796	1.2841	6.6956	2.9177	1.1949	3.8525	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037
2023	15.3571	16.9572	21.9661	0.0445	1.1587	0.7835	1.9422	0.3129	0.7415	1.0544	0.0000	4,352.3476	4,352.3476	0.6622	0.1071	4,400.8256
Maximum	15.3571	29.6235	22.2202	0.0570	5.6796	1.2841	6.6956	2.9177	1.1949	3.8525	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.05	0.00	46.22	54.42	0.00	44.01	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Energy	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Mobile	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921
Total	2.5043	0.6392	4.3091	9.8300e-003	0.9128	0.0135	0.9263	0.2435	0.0131	0.2565		1,061.6779	1,061.6779	0.0504	0.0447	1,076.2554

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Energy	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Mobile	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921
Total	2.5043	0.6392	4.3091	9.8300e-003	0.9128	0.0135	0.9263	0.2435	0.0131	0.2565		1,061.6779	1,061.6779	0.0504	0.0447	1,076.2554

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	7/28/2022	5	20	
2	Site Preparation	Site Preparation	7/29/2022	8/25/2022	5	20	
3	Grading	Grading	8/26/2022	10/20/2022	5	40	
4	Building Construction	Building Construction	10/21/2022	6/1/2023	5	160	
5	Architectural Coating	Architectural Coating	5/1/2023	7/31/2023	5	66	
6	Paving	Paving	7/2/2023	7/31/2023	5	21	
7	Trenching	Trenching	6/2/2023	7/1/2023	5	21	

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 40

Acres of Paving: 1.82

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 138,165; Non-Residential Outdoor: 46,055; Striped Parking Area: 3,710

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Trenchers	1	8.00	78	0.50
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Pavers	1	8.00	130	0.42

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	567.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	150.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1376	0.0000	6.1376	0.9293	0.0000	0.9293			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	6.1376	1.2427	7.3802	0.9293	1.1553	2.0846		3,746.7812	3,746.7812	1.0524		3,773.0920

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1072	3.8639	1.0081	0.0167	0.4965	0.0406	0.5371	0.1361	0.0388	0.1750		1,815.7185	1,815.7185	0.0778	0.2877	1,903.4066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.1707	3.9041	1.6261	0.0182	0.6641	0.0415	0.7056	0.1806	0.0396	0.2203		1,973.1537	1,973.1537	0.0818	0.2917	2,062.1117

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6238	0.0000	2.6238	0.3973	0.0000	0.3973			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	2.6238	1.2427	3.8665	0.3973	1.1553	1.5525	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1072	3.8639	1.0081	0.0167	0.4740	0.0406	0.5146	0.1306	0.0388	0.1695		1,815.7185	1,815.7185	0.0778	0.2877	1,903.4066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1589	8.8000e-004	0.1598	0.0423	8.1000e-004	0.0431		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.1707	3.9041	1.6261	0.0182	0.6329	0.0415	0.6744	0.1729	0.0396	0.2126		1,973.1537	1,973.1537	0.0818	0.2917	2,062.1117

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.8396	0.0000	12.8396	6.7063	0.0000	6.7063			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338		2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	12.8396	1.0150	13.8545	6.7063	0.9338	7.6401		2,256.5486	2,256.5486	0.7298		2,274.7939

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0762	0.0483	0.7415	1.8600e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461
Total	0.0762	0.0483	0.7415	1.8600e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4889	0.0000	5.4889	2.8670	0.0000	2.8670			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	5.4889	1.0150	6.5039	2.8670	0.9338	3.8007	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0762	0.0483	0.7415	1.8600e-003	0.1907	1.0600e-003	0.1918	0.0508	9.7000e-004	0.0518		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461
Total	0.0762	0.0483	0.7415	1.8600e-003	0.1907	1.0600e-003	0.1918	0.0508	9.7000e-004	0.0518		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0860	0.0000	7.0860	3.4253	0.0000	3.4253			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.0860	0.9409	8.0268	3.4253	0.8656	4.2908		2,872.0464	2,872.0464	0.9289		2,895.2684

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0142	0.5111	0.1334	2.2100e-003	0.0657	5.3700e-003	0.0710	0.0180	5.1400e-003	0.0231		240.1744	240.1744	0.0103	0.0381	251.7734
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.0777	0.5513	0.7513	3.7600e-003	0.2333	6.2500e-003	0.2396	0.0625	5.9500e-003	0.0684		397.6096	397.6096	0.0144	0.0420	410.4784

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0293	0.0000	3.0293	1.4643	0.0000	1.4643			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	3.0293	0.9409	3.9701	1.4643	0.8656	2.3299	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0142	0.5111	0.1334	2.2100e-003	0.0627	5.3700e-003	0.0681	0.0173	5.1400e-003	0.0224		240.1744	240.1744	0.0103	0.0381	251.7734
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1589	8.8000e-004	0.1598	0.0423	8.1000e-004	0.0431		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.0777	0.5513	0.7513	3.7600e-003	0.2216	6.2500e-003	0.2279	0.0596	5.9500e-003	0.0655		397.6096	397.6096	0.0144	0.0420	410.4784

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3137	0.4821	5.6000e-003	0.1922	0.0156	0.2078	0.0554	0.0150	0.0703		600.2065	600.2065	0.0162	0.0888	627.0806
Worker	0.3261	0.2066	3.1721	7.9400e-003	0.8607	4.5200e-003	0.8652	0.2283	4.1600e-003	0.2324		808.1673	808.1673	0.0210	0.0201	814.6859
Total	0.3784	1.5203	3.6542	0.0135	1.0529	0.0202	1.0730	0.2836	0.0191	0.3027		1,408.3738	1,408.3738	0.0372	0.1089	1,441.7665

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3137	0.4821	5.6000e-003	0.1840	0.0156	0.1996	0.0533	0.0150	0.0683		600.2065	600.2065	0.0162	0.0888	627.0806
Worker	0.3261	0.2066	3.1721	7.9400e-003	0.8158	4.5200e-003	0.8203	0.2172	4.1600e-003	0.2214		808.1673	808.1673	0.0210	0.0201	814.6859
Total	0.3784	1.5203	3.6542	0.0135	0.9998	0.0202	1.0199	0.2706	0.0191	0.2897		1,408.3738	1,408.3738	0.0372	0.1089	1,441.7665

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0351	1.0523	0.4416	5.3700e-003	0.1922	7.9100e-003	0.2001	0.0554	7.5600e-003	0.0629		575.7545	575.7545	0.0151	0.0850	601.4676
Worker	0.3011	0.1817	2.9038	7.6900e-003	0.8607	4.2500e-003	0.8649	0.2283	3.9100e-003	0.2322		786.6848	786.6848	0.0188	0.0185	792.6672
Total	0.3362	1.2340	3.3453	0.0131	1.0529	0.0122	1.0650	0.2836	0.0115	0.2951		1,362.4393	1,362.4393	0.0338	0.1035	1,394.1348

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0351	1.0523	0.4416	5.3700e-003	0.1840	7.9100e-003	0.1919	0.0533	7.5600e-003	0.0609		575.7545	575.7545	0.0151	0.0850	601.4676
Worker	0.3011	0.1817	2.9038	7.6900e-003	0.8158	4.2500e-003	0.8200	0.2172	3.9100e-003	0.2212		786.6848	786.6848	0.0188	0.0185	792.6672
Total	0.3362	1.2340	3.3453	0.0131	0.9998	0.0122	1.0119	0.2706	0.0115	0.2820		1,362.4393	1,362.4393	0.0338	0.1035	1,394.1348

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.1978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	13.3895	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.1978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	13.3895	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0587	0.0354	0.5657	1.5000e-003	0.1589	8.3000e-004	0.1598	0.0423	7.6000e-004	0.0431		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	0.0587	0.0354	0.5657	1.5000e-003	0.1589	8.3000e-004	0.1598	0.0423	7.6000e-004	0.0431		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.2271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1452	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0782	0.0472	0.7542	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876
Total	0.0782	0.0472	0.7542	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.2271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1452	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0782	0.0472	0.7542	2.0000e-003	0.2119	1.1000e-003	0.2130	0.0564	1.0200e-003	0.0574		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876
Total	0.0782	0.0472	0.7542	2.0000e-003	0.2119	1.1000e-003	0.2130	0.0564	1.0200e-003	0.0574		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876

3.8 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576		1,083.9937	1,083.9937	0.3506		1,092.7584
Total	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576		1,083.9937	1,083.9937	0.3506		1,092.7584

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0189	0.3017	8.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550
Total	0.0313	0.0189	0.3017	8.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576	0.0000	1,083.9937	1,083.9937	0.3506		1,092.7584
Total	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576	0.0000	1,083.9937	1,083.9937	0.3506		1,092.7584

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0189	0.3017	8.0000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.1000e-004	0.0230		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550
Total	0.0313	0.0189	0.3017	8.0000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.1000e-004	0.0230		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921
Unmitigated	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	108.69	108.69	108.69	432,247	432,247
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.69	108.69	108.69	432,247	432,247

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Industrial Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
NaturalGas Unmitigated	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	865.582	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	0.865582	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005			0.0251
Unmitigated	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005			0.0251

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.2387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	1.8534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	1.0200e-003	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005			0.0251
Total	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005			0.0251

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0200e-003	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Total	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**1300 East Highland Avenue
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	92.11	1000sqft	2.11	92,110.00	0
Other Asphalt Surfaces	1.70	Acre	1.70	74,052.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0
City Park	0.67	Acre	0.67	29,185.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - land use
- Construction Phase - anticipated construction schedule
- Off-road Equipment - anticipated consutrction
- Demolition -
- Grading - Based on grading estimates
- Vehicle Trips - per trip gen memo
- Construction Off-road Equipment Mitigation - SCAQMD rule compliance
- Water Mitigation -
- Waste Mitigation - per AB 939
- Off-road Equipment - Based on construction estimates
- Trips and VMT - Construction estimates

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Architectural Coating - Construction estimates

Area Coating - Based on construction estimates

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	4,755.00	3,710.00
tblAreaCoating	Area_Parking	4755	3710
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	160.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	20.00
tblGrading	AcresOfGrading	20.00	15.00
tblGrading	MaterialExported	0.00	1,200.00
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblTripsAndVMT	VendorTripNumber	33.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	84.00	77.00
tblTripsAndVMT	WorkerTripNumber	17.00	15.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	1.18
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	1.18
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	1.18

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1413	1.3764	1.1625	2.5000e-003	0.3709	0.0631	0.4340	0.1555	0.0586	0.2141	0.0000	223.1986	223.1986	0.0491	6.0100e-003	226.2183
2023	0.5661	1.0624	1.3406	2.6400e-003	0.0650	0.0498	0.1148	0.0175	0.0469	0.0644	0.0000	233.4714	233.4714	0.0412	5.3700e-003	236.1006
Maximum	0.5661	1.3764	1.3406	2.6400e-003	0.3709	0.0631	0.4340	0.1555	0.0586	0.2141	0.0000	233.4714	233.4714	0.0491	6.0100e-003	236.1006

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1413	1.3764	1.1625	2.5000e-003	0.1792	0.0631	0.2423	0.0721	0.0586	0.1307	0.0000	223.1984	223.1984	0.0491	6.0100e-003	226.2181
2023	0.5661	1.0624	1.3406	2.6400e-003	0.0617	0.0498	0.1115	0.0167	0.0469	0.0636	0.0000	233.4712	233.4712	0.0412	5.3700e-003	236.1004
Maximum	0.5661	1.3764	1.3406	2.6400e-003	0.1792	0.0631	0.2423	0.0721	0.0586	0.1307	0.0000	233.4712	233.4712	0.0491	6.0100e-003	236.1004

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	44.74	0.00	35.53	48.68	0.00	30.24	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2022	9-30-2022	0.8563	0.8563
2	10-1-2022	12-31-2022	0.6634	0.6634
3	1-1-2023	3-31-2023	0.5652	0.5652
4	4-1-2023	6-30-2023	0.7868	0.7868
5	7-1-2023	9-30-2023	0.2741	0.2741
		Highest	0.8563	0.8563

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Energy	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	167.3038	167.3038	0.0130	1.8500e-003	168.1801
Mobile	0.0640	0.1095	0.7102	1.5900e-003	0.1630	1.2800e-003	0.1643	0.0435	1.2000e-003	0.0447	0.0000	148.9871	148.9871	8.2100e-003	7.3500e-003	151.3834
Waste						0.0000	0.0000		0.0000	0.0000	23.1978	0.0000	23.1978	1.3710	0.0000	57.4716
Water						0.0000	0.0000		0.0000	0.0000	6.7577	50.7602	57.5179	0.6984	0.0169	80.0154
Total	0.4476	0.1250	0.7246	1.6800e-003	0.1630	2.4600e-003	0.1655	0.0435	2.3800e-003	0.0459	29.9555	367.0537	397.0092	2.0906	0.0261	457.0533

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Energy	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	167.3038	167.3038	0.0130	1.8500e-003	168.1801
Mobile	0.0640	0.1095	0.7102	1.5900e-003	0.1630	1.2800e-003	0.1643	0.0435	1.2000e-003	0.0447	0.0000	148.9871	148.9871	8.2100e-003	7.3500e-003	151.3834
Waste						0.0000	0.0000		0.0000	0.0000	11.5989	0.0000	11.5989	0.6855	0.0000	28.7358
Water						0.0000	0.0000		0.0000	0.0000	5.4061	40.8268	46.2329	0.5587	0.0135	64.2321
Total	0.4476	0.1250	0.7246	1.6800e-003	0.1630	2.4600e-003	0.1655	0.0435	2.3800e-003	0.0459	17.0050	357.1203	374.1253	1.2654	0.0227	412.5341

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.23	2.71	5.76	39.47	12.95	9.74

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	7/28/2022	5	20	
2	Site Preparation	Site Preparation	7/29/2022	8/25/2022	5	20	
3	Grading	Grading	8/26/2022	10/20/2022	5	40	
4	Building Construction	Building Construction	10/21/2022	6/1/2023	5	160	
5	Architectural Coating	Architectural Coating	5/1/2023	7/31/2023	5	66	
6	Paving	Paving	7/2/2023	7/31/2023	5	21	
7	Trenching	Trenching	6/2/2023	7/1/2023	5	21	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 40

Acres of Paving: 1.82

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 138,165; Non-Residential Outdoor: 46,055; Striped Parking Area: 3,710

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

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Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Trenchers	1	8.00	78	0.50
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Pavers	1	8.00	130	0.42

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	567.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	150.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0614	0.0000	0.0614	9.2900e-003	0.0000	9.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0614	0.0124	0.0738	9.2900e-003	0.0116	0.0208	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0500e-003	0.0408	0.0102	1.7000e-004	4.8800e-003	4.1000e-004	5.2900e-003	1.3400e-003	3.9000e-004	1.7300e-003	0.0000	16.4771	16.4771	7.0000e-004	2.6100e-003	17.2728
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.4000e-004	5.3200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.3193	1.3193	4.0000e-005	4.0000e-005	1.3315
Total	1.6200e-003	0.0413	0.0155	1.8000e-004	6.5200e-003	4.2000e-004	6.9400e-003	1.7800e-003	4.0000e-004	2.1700e-003	0.0000	17.7964	17.7964	7.4000e-004	2.6500e-003	18.6043

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	3.9700e-003	0.0000	3.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0262	0.0124	0.0387	3.9700e-003	0.0116	0.0155	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Mitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0500e-003	0.0408	0.0102	1.7000e-004	4.6600e-003	4.1000e-004	5.0700e-003	1.2900e-003	3.9000e-004	1.6800e-003	0.0000	16.4771	16.4771	7.0000e-004	2.6100e-003	17.2728
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.4000e-004	5.3200e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.2000e-004	0.0000	1.3193	1.3193	4.0000e-005	4.0000e-005	1.3315
Total	1.6200e-003	0.0413	0.0155	1.8000e-004	6.2200e-003	4.2000e-004	6.6400e-003	1.7100e-003	4.0000e-004	2.1000e-003	0.0000	17.7964	17.7964	7.4000e-004	2.6500e-003	18.6043

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1284	0.0000	0.1284	0.0671	0.0000	0.0671	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.2094	0.1164	2.3000e-004		0.0102	0.0102		9.3400e-003	9.3400e-003	0.0000	20.4711	20.4711	6.6200e-003	0.0000	20.6366
Total	0.0200	0.2094	0.1164	2.3000e-004	0.1284	0.0102	0.1386	0.0671	9.3400e-003	0.0764	0.0000	20.4711	20.4711	6.6200e-003	0.0000	20.6366

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.3000e-004	6.3900e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5832	1.5832	5.0000e-005	5.0000e-005	1.5978
Total	6.8000e-004	5.3000e-004	6.3900e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5832	1.5832	5.0000e-005	5.0000e-005	1.5978

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0549	0.0000	0.0549	0.0287	0.0000	0.0287	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.2094	0.1164	2.3000e-004		0.0102	0.0102		9.3400e-003	9.3400e-003	0.0000	20.4710	20.4710	6.6200e-003	0.0000	20.6366
Total	0.0200	0.2094	0.1164	2.3000e-004	0.0549	0.0102	0.0650	0.0287	9.3400e-003	0.0380	0.0000	20.4710	20.4710	6.6200e-003	0.0000	20.6366

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.3000e-004	6.3900e-003	2.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5832	1.5832	5.0000e-005	5.0000e-005	1.5978

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Total	6.8000e-004	5.3000e-004	6.3900e-003	2.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5832	1.5832	5.0000e-005	5.0000e-005	1.5978
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3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1417	0.0000	0.1417	0.0685	0.0000	0.0685	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.4171	0.3055	5.9000e-004		0.0188	0.0188		0.0173	0.0173	0.0000	52.1095	52.1095	0.0169	0.0000	52.5309
Total	0.0390	0.4171	0.3055	5.9000e-004	0.1417	0.0188	0.1605	0.0685	0.0173	0.0858	0.0000	52.1095	52.1095	0.0169	0.0000	52.5309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0108	2.6900e-003	4.0000e-005	1.2900e-003	1.1000e-004	1.4000e-003	3.5000e-004	1.0000e-004	4.6000e-004	0.0000	4.3590	4.3590	1.9000e-004	6.9000e-004	4.5695
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	8.9000e-004	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6386	2.6386	8.0000e-005	8.0000e-005	2.6631
Total	1.4100e-003	0.0117	0.0133	7.0000e-005	4.5800e-003	1.3000e-004	4.7100e-003	1.2200e-003	1.2000e-004	1.3500e-003	0.0000	6.9976	6.9976	2.7000e-004	7.7000e-004	7.2326

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0606	0.0000	0.0606	0.0293	0.0000	0.0293	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.4171	0.3055	5.9000e-004		0.0188	0.0188		0.0173	0.0173	0.0000	52.1095	52.1095	0.0169	0.0000	52.5308
Total	0.0390	0.4171	0.3055	5.9000e-004	0.0606	0.0188	0.0794	0.0293	0.0173	0.0466	0.0000	52.1095	52.1095	0.0169	0.0000	52.5308

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0108	2.6900e-003	4.0000e-005	1.2300e-003	1.1000e-004	1.3400e-003	3.4000e-004	1.0000e-004	4.4000e-004	0.0000	4.3590	4.3590	1.9000e-004	6.9000e-004	4.5695
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	8.9000e-004	0.0107	3.0000e-005	3.1200e-003	2.0000e-005	3.1400e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.6386	2.6386	8.0000e-005	8.0000e-005	2.6631
Total	1.4100e-003	0.0117	0.0133	7.0000e-005	4.3500e-003	1.3000e-004	4.4800e-003	1.1700e-003	1.2000e-004	1.2900e-003	0.0000	6.9976	6.9976	2.7000e-004	7.7000e-004	7.2326

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438
Total	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-003	0.0352	0.0125	1.4000e-004	4.8200e-003	4.0000e-004	5.2200e-003	1.3900e-003	3.8000e-004	1.7700e-003	0.0000	13.8912	13.8912	3.7000e-004	2.0600e-003	14.5136
Worker	7.4000e-003	5.8100e-003	0.0697	1.9000e-004	0.0215	1.2000e-004	0.0216	5.7200e-003	1.1000e-004	5.8200e-003	0.0000	17.2696	17.2696	4.9000e-004	5.0000e-004	17.4298
Total	8.7000e-003	0.0411	0.0822	3.3000e-004	0.0264	5.2000e-004	0.0269	7.1100e-003	4.9000e-004	7.5900e-003	0.0000	31.1607	31.1607	8.6000e-004	2.5600e-003	31.9433

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438
Total	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-003	0.0352	0.0125	1.4000e-004	4.6200e-003	4.0000e-004	5.0200e-003	1.3400e-003	3.8000e-004	1.7200e-003	0.0000	13.8912	13.8912	3.7000e-004	2.0600e-003	14.5136
Worker	7.4000e-003	5.8100e-003	0.0697	1.9000e-004	0.0204	1.2000e-004	0.0205	5.4400e-003	1.1000e-004	5.5500e-003	0.0000	17.2696	17.2696	4.9000e-004	5.0000e-004	17.4298
Total	8.7000e-003	0.0411	0.0822	3.3000e-004	0.0250	5.2000e-004	0.0255	6.7800e-003	4.9000e-004	7.2700e-003	0.0000	31.1607	31.1607	8.6000e-004	2.5600e-003	31.9433

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3336	126.3336	0.0301	0.0000	127.0849
Total	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3336	126.3336	0.0301	0.0000	127.0849

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8400e-003	0.0603	0.0244	2.9000e-004	0.0103	4.3000e-004	0.0107	2.9800e-003	4.1000e-004	3.3900e-003	0.0000	28.4953	28.4953	7.4000e-004	4.2100e-003	29.7687
Worker	0.0146	0.0109	0.1366	3.9000e-004	0.0460	2.3000e-004	0.0462	0.0122	2.1000e-004	0.0124	0.0000	35.9371	35.9371	9.4000e-004	9.8000e-004	36.2512
Total	0.0165	0.0712	0.1610	6.8000e-004	0.0563	6.6000e-004	0.0570	0.0152	6.2000e-004	0.0158	0.0000	64.4324	64.4324	1.6800e-003	5.1900e-003	66.0200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3334	126.3334	0.0301	0.0000	127.0848
Total	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3334	126.3334	0.0301	0.0000	127.0848

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8400e-003	0.0603	0.0244	2.9000e-004	9.8700e-003	4.3000e-004	0.0103	2.8700e-003	4.1000e-004	3.2800e-003	0.0000	28.4953	28.4953	7.4000e-004	4.2100e-003	29.7687
Worker	0.0146	0.0109	0.1366	3.9000e-004	0.0436	2.3000e-004	0.0439	0.0116	2.1000e-004	0.0119	0.0000	35.9371	35.9371	9.4000e-004	9.8000e-004	36.2512
Total	0.0165	0.0712	0.1610	6.8000e-004	0.0535	6.6000e-004	0.0542	0.0145	6.2000e-004	0.0151	0.0000	64.4324	64.4324	1.6800e-003	5.1900e-003	66.0200

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3200e-003	0.0430	0.0598	1.0000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	8.4257	8.4257	5.0000e-004	0.0000	8.4383
Total	0.4419	0.0430	0.0598	1.0000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	8.4257	8.4257	5.0000e-004	0.0000	8.4383

Unmitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7200e-003	1.2900e-003	0.0161	5.0000e-005	5.4300e-003	3.0000e-005	5.4500e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	4.2390	4.2390	1.1000e-004	1.2000e-004	4.2760
Total	1.7200e-003	1.2900e-003	0.0161	5.0000e-005	5.4300e-003	3.0000e-005	5.4500e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	4.2390	4.2390	1.1000e-004	1.2000e-004	4.2760

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3200e-003	0.0430	0.0598	1.0000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	8.4257	8.4257	5.0000e-004	0.0000	8.4383
Total	0.4419	0.0430	0.0598	1.0000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	8.4257	8.4257	5.0000e-004	0.0000	8.4383

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7200e-003	1.2900e-003	0.0161	5.0000e-005	5.1500e-003	3.0000e-005	5.1700e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	4.2390	4.2390	1.1000e-004	1.2000e-004	4.2760
Total	1.7200e-003	1.2900e-003	0.0161	5.0000e-005	5.1500e-003	3.0000e-005	5.1700e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	4.2390	4.2390	1.1000e-004	1.2000e-004	4.2760

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6400e-003	0.0923	0.1280	2.0000e-004		4.5700e-003	4.5700e-003		4.2300e-003	4.2300e-003	0.0000	17.1975	17.1975	5.4000e-003	0.0000	17.3326
Paving	2.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0120	0.0923	0.1280	2.0000e-004		4.5700e-003	4.5700e-003		4.2300e-003	4.2300e-003	0.0000	17.1975	17.1975	5.4000e-003	0.0000	17.3326

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.5000e-004	6.8300e-003	2.0000e-005	2.3000e-003	1.0000e-005	2.3100e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7984	1.7984	5.0000e-005	5.0000e-005	1.8141

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Total	7.3000e-004	5.5000e-004	6.8300e-003	2.0000e-005	2.3000e-003	1.0000e-005	2.3100e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7984	1.7984	5.0000e-005	5.0000e-005	1.8141
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6400e-003	0.0923	0.1280	2.0000e-004		4.5700e-003	4.5700e-003		4.2300e-003	4.2300e-003	0.0000	17.1975	17.1975	5.4000e-003	0.0000	17.3326
Paving	2.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0120	0.0923	0.1280	2.0000e-004		4.5700e-003	4.5700e-003		4.2300e-003	4.2300e-003	0.0000	17.1975	17.1975	5.4000e-003	0.0000	17.3326

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.5000e-004	6.8300e-003	2.0000e-005	2.1800e-003	1.0000e-005	2.1900e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.7984	1.7984	5.0000e-005	5.0000e-005	1.8141
Total	7.3000e-004	5.5000e-004	6.8300e-003	2.0000e-005	2.1800e-003	1.0000e-005	2.1900e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.7984	1.7984	5.0000e-005	5.0000e-005	1.8141

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3.8 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2400e-003	0.0698	0.0809	1.2000e-004		4.0800e-003	4.0800e-003		3.7500e-003	3.7500e-003	0.0000	10.3255	10.3255	3.3400e-003	0.0000	10.4090
Total	7.2400e-003	0.0698	0.0809	1.2000e-004		4.0800e-003	4.0800e-003		3.7500e-003	3.7500e-003	0.0000	10.3255	10.3255	3.3400e-003	0.0000	10.4090

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.7300e-003	1.0000e-005	9.2000e-004	0.0000	9.3000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7193	0.7193	2.0000e-005	2.0000e-005	0.7256
Total	2.9000e-004	2.2000e-004	2.7300e-003	1.0000e-005	9.2000e-004	0.0000	9.3000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7193	0.7193	2.0000e-005	2.0000e-005	0.7256

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2400e-003	0.0698	0.0809	1.2000e-004		4.0800e-003	4.0800e-003		3.7500e-003	3.7500e-003	0.0000	10.3255	10.3255	3.3400e-003	0.0000	10.4090
Total	7.2400e-003	0.0698	0.0809	1.2000e-004		4.0800e-003	4.0800e-003		3.7500e-003	3.7500e-003	0.0000	10.3255	10.3255	3.3400e-003	0.0000	10.4090

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.7300e-003	1.0000e-005	8.7000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.7193	0.7193	2.0000e-005	2.0000e-005	0.7256
Total	2.9000e-004	2.2000e-004	2.7300e-003	1.0000e-005	8.7000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.7193	0.7193	2.0000e-005	2.0000e-005	0.7256

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0640	0.1095	0.7102	1.5900e-003	0.1630	1.2800e-003	0.1643	0.0435	1.2000e-003	0.0447	0.0000	148.9871	148.9871	8.2100e-003	7.3500e-003	151.3834
Unmitigated	0.0640	0.1095	0.7102	1.5900e-003	0.1630	1.2800e-003	0.1643	0.0435	1.2000e-003	0.0447	0.0000	148.9871	148.9871	8.2100e-003	7.3500e-003	151.3834

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	108.69	108.69	108.69	432,247	432,247
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.69	108.69	108.69	432,247	432,247

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Industrial Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	150.4442	150.4442	0.0127	1.5400e-003	151.2203
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	150.4442	150.4442	0.0127	1.5400e-003	151.2203
NaturalGas Mitigated	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598
NaturalGas Unmitigated	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	315937	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	315937	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	846491	150.1214	0.0127	1.5400e-003	150.8958
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1820	0.3228	3.0000e-005	0.0000	0.3244
Total		150.4442	0.0127	1.5400e-003	151.2203

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	846491	150.1214	0.0127	1.5400e-003	150.8958
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1820	0.3228	3.0000e-005	0.0000	0.3244

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Total		150.4442	0.0127	1.5400e-003	151.2203
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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Unmitigated	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0436					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Total	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003

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Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0436					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Total	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	46.2329	0.5587	0.0135	64.2321
Unmitigated	57.5179	0.6984	0.0169	80.0154

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.798292	1.5729	1.3000e-004	2.0000e-005	1.5810
Industrial Park	21.3004 / 0	55.9450	0.6982	0.0169	78.4344
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		57.5178	0.6984	0.0169	80.0154

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.749597	1.4769	1.2000e-004	2.0000e-005	1.4846
Industrial Park	17.0404 / 0	44.7560	0.5586	0.0135	62.7475
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		46.2329	0.5587	0.0135	64.2321

1300 East Highland Avenue - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.5989	0.6855	0.0000	28.7358
Unmitigated	23.1978	1.3710	0.0000	57.4716

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
Industrial Park	114.22	23.1856	1.3702	0.0000	57.4414
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		23.1978	1.3710	0.0000	57.4716

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.03	6.0900e-003	3.6000e-004	0.0000	0.0151
Industrial Park	57.11	11.5928	0.6851	0.0000	28.7207
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		11.5989	0.6855	0.0000	28.7358

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

1300 East Highland Avenue - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**1300 East Highland Avenue
San Bernardino-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	92.11	1000sqft	2.11	92,110.00	0
Other Asphalt Surfaces	1.70	Acre	1.70	74,052.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0
City Park	0.67	Acre	0.67	29,185.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - land use
- Construction Phase - anticipated construction schedule
- Off-road Equipment - anticipated consutrction
- Demolition -
- Grading - Based on grading estimates
- Vehicle Trips - per trip gen memo
- Construction Off-road Equipment Mitigation - SCAQMD rule compliance
- Water Mitigation -
- Waste Mitigation - per AB 939
- Off-road Equipment - Based on construction estimates
- Trips and VMT - Construction estimates
- Architectural Coating - Construction estimates
- Area Coating - Based on construction estimates

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	4,755.00	3,710.00
tblAreaCoating	Area_Parking	4755	3710
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	160.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	20.00
tblGrading	AcresOfGrading	20.00	15.00
tblGrading	MaterialExported	0.00	1,200.00
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblTripsAndVMT	VendorTripNumber	33.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	84.00	77.00
tblTripsAndVMT	WorkerTripNumber	17.00	15.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	1.18
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	1.18
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	1.18

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.8099	29.6235	22.2202	0.0570	13.0408	1.2841	14.0568	6.7597	1.1949	7.6944	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037
2023	15.3571	16.9572	21.9661	0.0445	1.2205	0.7835	2.0041	0.3281	0.7415	1.0696	0.0000	4,352.3476	4,352.3476	0.6622	0.1071	4,400.8256
Maximum	15.3571	29.6235	22.2202	0.0570	13.0408	1.2841	14.0568	6.7597	1.1949	7.6944	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.8099	29.6235	22.2202	0.0570	5.6796	1.2841	6.6956	2.9177	1.1949	3.8525	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037
2023	15.3571	16.9572	21.9661	0.0445	1.1587	0.7835	1.9422	0.3129	0.7415	1.0544	0.0000	4,352.3476	4,352.3476	0.6622	0.1071	4,400.8256
Maximum	15.3571	29.6235	22.2202	0.0570	5.6796	1.2841	6.6956	2.9177	1.1949	3.8525	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.05	0.00	46.22	54.42	0.00	44.01	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Energy	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Mobile	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921
Total	2.5043	0.6392	4.3091	9.8300e-003	0.9128	0.0135	0.9263	0.2435	0.0131	0.2565		1,061.6779	1,061.6779	0.0504	0.0447	1,076.2554

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Energy	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Mobile	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921
Total	2.5043	0.6392	4.3091	9.8300e-003	0.9128	0.0135	0.9263	0.2435	0.0131	0.2565		1,061.6779	1,061.6779	0.0504	0.0447	1,076.2554

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	7/28/2022	5	20	
2	Site Preparation	Site Preparation	7/29/2022	8/25/2022	5	20	
3	Grading	Grading	8/26/2022	10/20/2022	5	40	
4	Building Construction	Building Construction	10/21/2022	6/1/2023	5	160	
5	Architectural Coating	Architectural Coating	5/1/2023	7/31/2023	5	66	
6	Paving	Paving	7/2/2023	7/31/2023	5	21	
7	Trenching	Trenching	6/2/2023	7/1/2023	5	21	

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 40

Acres of Paving: 1.82

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 138,165; Non-Residential Outdoor: 46,055; Striped Parking Area: 3,710

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Trenchers	1	8.00	78	0.50
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Pavers	1	8.00	130	0.42

Trips and VMT

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	567.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	150.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1376	0.0000	6.1376	0.9293	0.0000	0.9293			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	6.1376	1.2427	7.3802	0.9293	1.1553	2.0846		3,746.7812	3,746.7812	1.0524		3,773.0920

Unmitigated Construction Off-Site

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1072	3.8639	1.0081	0.0167	0.4965	0.0406	0.5371	0.1361	0.0388	0.1750		1,815.7185	1,815.7185	0.0778	0.2877	1,903.4066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.1707	3.9041	1.6261	0.0182	0.6641	0.0415	0.7056	0.1806	0.0396	0.2203		1,973.1537	1,973.1537	0.0818	0.2917	2,062.1117

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6238	0.0000	2.6238	0.3973	0.0000	0.3973			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	2.6238	1.2427	3.8665	0.3973	1.1553	1.5525	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.1072	3.8639	1.0081	0.0167	0.4740	0.0406	0.5146	0.1306	0.0388	0.1695		1,815.7185	1,815.7185	0.0778	0.2877	1,903.4066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1589	8.8000e-004	0.1598	0.0423	8.1000e-004	0.0431		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.1707	3.9041	1.6261	0.0182	0.6329	0.0415	0.6744	0.1729	0.0396	0.2126		1,973.1537	1,973.1537	0.0818	0.2917	2,062.1117

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.8396	0.0000	12.8396	6.7063	0.0000	6.7063			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338		2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	12.8396	1.0150	13.8545	6.7063	0.9338	7.6401		2,256.5486	2,256.5486	0.7298		2,274.7939

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0762	0.0483	0.7415	1.8600e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461
Total	0.0762	0.0483	0.7415	1.8600e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4889	0.0000	5.4889	2.8670	0.0000	2.8670			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	5.4889	1.0150	6.5039	2.8670	0.9338	3.8007	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0762	0.0483	0.7415	1.8600e-003	0.1907	1.0600e-003	0.1918	0.0508	9.7000e-004	0.0518		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461
Total	0.0762	0.0483	0.7415	1.8600e-003	0.1907	1.0600e-003	0.1918	0.0508	9.7000e-004	0.0518		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0860	0.0000	7.0860	3.4253	0.0000	3.4253			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.0860	0.9409	8.0268	3.4253	0.8656	4.2908		2,872.0464	2,872.0464	0.9289		2,895.2684

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0142	0.5111	0.1334	2.2100e-003	0.0657	5.3700e-003	0.0710	0.0180	5.1400e-003	0.0231		240.1744	240.1744	0.0103	0.0381	251.7734
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.0777	0.5513	0.7513	3.7600e-003	0.2333	6.2500e-003	0.2396	0.0625	5.9500e-003	0.0684		397.6096	397.6096	0.0144	0.0420	410.4784

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0293	0.0000	3.0293	1.4643	0.0000	1.4643			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	3.0293	0.9409	3.9701	1.4643	0.8656	2.3299	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0142	0.5111	0.1334	2.2100e-003	0.0627	5.3700e-003	0.0681	0.0173	5.1400e-003	0.0224		240.1744	240.1744	0.0103	0.0381	251.7734
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1589	8.8000e-004	0.1598	0.0423	8.1000e-004	0.0431		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.0777	0.5513	0.7513	3.7600e-003	0.2216	6.2500e-003	0.2279	0.0596	5.9500e-003	0.0655		397.6096	397.6096	0.0144	0.0420	410.4784

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3137	0.4821	5.6000e-003	0.1922	0.0156	0.2078	0.0554	0.0150	0.0703		600.2065	600.2065	0.0162	0.0888	627.0806
Worker	0.3261	0.2066	3.1721	7.9400e-003	0.8607	4.5200e-003	0.8652	0.2283	4.1600e-003	0.2324		808.1673	808.1673	0.0210	0.0201	814.6859
Total	0.3784	1.5203	3.6542	0.0135	1.0529	0.0202	1.0730	0.2836	0.0191	0.3027		1,408.3738	1,408.3738	0.0372	0.1089	1,441.7665

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3137	0.4821	5.6000e-003	0.1840	0.0156	0.1996	0.0533	0.0150	0.0683		600.2065	600.2065	0.0162	0.0888	627.0806
Worker	0.3261	0.2066	3.1721	7.9400e-003	0.8158	4.5200e-003	0.8203	0.2172	4.1600e-003	0.2214		808.1673	808.1673	0.0210	0.0201	814.6859
Total	0.3784	1.5203	3.6542	0.0135	0.9998	0.0202	1.0199	0.2706	0.0191	0.2897		1,408.3738	1,408.3738	0.0372	0.1089	1,441.7665

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0351	1.0523	0.4416	5.3700e-003	0.1922	7.9100e-003	0.2001	0.0554	7.5600e-003	0.0629		575.7545	575.7545	0.0151	0.0850	601.4676
Worker	0.3011	0.1817	2.9038	7.6900e-003	0.8607	4.2500e-003	0.8649	0.2283	3.9100e-003	0.2322		786.6848	786.6848	0.0188	0.0185	792.6672
Total	0.3362	1.2340	3.3453	0.0131	1.0529	0.0122	1.0650	0.2836	0.0115	0.2951		1,362.4393	1,362.4393	0.0338	0.1035	1,394.1348

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0351	1.0523	0.4416	5.3700e-003	0.1840	7.9100e-003	0.1919	0.0533	7.5600e-003	0.0609		575.7545	575.7545	0.0151	0.0850	601.4676
Worker	0.3011	0.1817	2.9038	7.6900e-003	0.8158	4.2500e-003	0.8200	0.2172	3.9100e-003	0.2212		786.6848	786.6848	0.0188	0.0185	792.6672
Total	0.3362	1.2340	3.3453	0.0131	0.9998	0.0122	1.0119	0.2706	0.0115	0.2820		1,362.4393	1,362.4393	0.0338	0.1035	1,394.1348

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.1978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	13.3895	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.1978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	13.3895	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0587	0.0354	0.5657	1.5000e-003	0.1589	8.3000e-004	0.1598	0.0423	7.6000e-004	0.0431		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	0.0587	0.0354	0.5657	1.5000e-003	0.1589	8.3000e-004	0.1598	0.0423	7.6000e-004	0.0431		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.2271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1452	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0782	0.0472	0.7542	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876
Total	0.0782	0.0472	0.7542	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.2271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1452	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0782	0.0472	0.7542	2.0000e-003	0.2119	1.1000e-003	0.2130	0.0564	1.0200e-003	0.0574		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876
Total	0.0782	0.0472	0.7542	2.0000e-003	0.2119	1.1000e-003	0.2130	0.0564	1.0200e-003	0.0574		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876

3.8 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576		1,083.9937	1,083.9937	0.3506		1,092.7584
Total	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576		1,083.9937	1,083.9937	0.3506		1,092.7584

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0189	0.3017	8.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550
Total	0.0313	0.0189	0.3017	8.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576	0.0000	1,083.9937	1,083.9937	0.3506		1,092.7584
Total	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576	0.0000	1,083.9937	1,083.9937	0.3506		1,092.7584

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0189	0.3017	8.0000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.1000e-004	0.0230		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550
Total	0.0313	0.0189	0.3017	8.0000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.1000e-004	0.0230		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921
Unmitigated	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	108.69	108.69	108.69	432,247	432,247
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.69	108.69	108.69	432,247	432,247

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Industrial Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
NaturalGas Mitigated	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
NaturalGas Unmitigated	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	865.582	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	0.865582	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383

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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Unmitigated	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0200e-003	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Total	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251

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Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0200e-003	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Total	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	92.11	1000sqft	2.11	92,110.00	0
Other Asphalt Surfaces	1.70	Acre	1.70	74,052.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0
City Park	0.67	Acre	0.67	29,185.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - land use
- Construction Phase - anticipated construction schedule
- Off-road Equipment - anticipated consutrction
- Demolition -
- Grading - Based on grading estimates
- Vehicle Trips - per trip gen memo
- Construction Off-road Equipment Mitigation - SCAQMD rule compliance
- Water Mitigation -
- Waste Mitigation - per AB 939
- Off-road Equipment - Based on construction estimates
- Trips and VMT - Construction estimates

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Architectural Coating - Construction estimates

Area Coating - Based on construction estimates

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	4,755.00	3,710.00
tblAreaCoating	Area_Parking	4755	3710
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	160.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	20.00
tblGrading	AcresOfGrading	20.00	15.00
tblGrading	MaterialExported	0.00	1,200.00
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblTripsAndVMT	VendorTripNumber	33.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	84.00	77.00
tblTripsAndVMT	WorkerTripNumber	17.00	15.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	1.18
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	1.18
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	1.18

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1413	1.3764	1.1625	2.5000e-003	0.3709	0.0631	0.4340	0.1555	0.0586	0.2141	0.0000	223.1986	223.1986	0.0491	6.0100e-003	226.2183
2023	0.5661	1.0624	1.3406	2.6400e-003	0.0650	0.0498	0.1148	0.0175	0.0469	0.0644	0.0000	233.4714	233.4714	0.0412	5.3700e-003	236.1006
Maximum	0.5661	1.3764	1.3406	2.6400e-003	0.3709	0.0631	0.4340	0.1555	0.0586	0.2141	0.0000	233.4714	233.4714	0.0491	6.0100e-003	236.1006

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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1413	1.3764	1.1625	2.5000e-003	0.1792	0.0631	0.2423	0.0721	0.0586	0.1307	0.0000	223.1984	223.1984	0.0491	6.0100e-003	226.2181
2023	0.5661	1.0624	1.3406	2.6400e-003	0.0617	0.0498	0.1115	0.0167	0.0469	0.0636	0.0000	233.4712	233.4712	0.0412	5.3700e-003	236.1004
Maximum	0.5661	1.3764	1.3406	2.6400e-003	0.1792	0.0631	0.2423	0.0721	0.0586	0.1307	0.0000	233.4712	233.4712	0.0491	6.0100e-003	236.1004

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	44.74	0.00	35.53	48.68	0.00	30.24	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2022	9-30-2022	0.8563	0.8563
2	10-1-2022	12-31-2022	0.6634	0.6634
3	1-1-2023	3-31-2023	0.5652	0.5652
4	4-1-2023	6-30-2023	0.7868	0.7868
5	7-1-2023	9-30-2023	0.2741	0.2741
		Highest	0.8563	0.8563

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Energy	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	167.3038	167.3038	0.0130	1.8500e-003	168.1801
Mobile	0.0640	0.1095	0.7102	1.5900e-003	0.1630	1.2800e-003	0.1643	0.0435	1.2000e-003	0.0447	0.0000	148.9871	148.9871	8.2100e-003	7.3500e-003	151.3834
Waste						0.0000	0.0000		0.0000	0.0000	23.1978	0.0000	23.1978	1.3710	0.0000	57.4716
Water						0.0000	0.0000		0.0000	0.0000	6.7577	50.7602	57.5179	0.6984	0.0169	80.0154
Total	0.4476	0.1250	0.7246	1.6800e-003	0.1630	2.4600e-003	0.1655	0.0435	2.3800e-003	0.0459	29.9555	367.0537	397.0092	2.0906	0.0261	457.0533

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Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Energy	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	167.3038	167.3038	0.0130	1.8500e-003	168.1801
Mobile	0.0640	0.1095	0.7102	1.5900e-003	0.1630	1.2800e-003	0.1643	0.0435	1.2000e-003	0.0447	0.0000	148.9871	148.9871	8.2100e-003	7.3500e-003	151.3834
Waste						0.0000	0.0000		0.0000	0.0000	11.5989	0.0000	11.5989	0.6855	0.0000	28.7358
Water						0.0000	0.0000		0.0000	0.0000	5.4061	40.8268	46.2329	0.5587	0.0135	64.2321
Total	0.4476	0.1250	0.7246	1.6800e-003	0.1630	2.4600e-003	0.1655	0.0435	2.3800e-003	0.0459	17.0050	357.1203	374.1253	1.2654	0.0227	412.5341

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.23	2.71	5.76	39.47	12.95	9.74

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	7/28/2022	5	20	
2	Site Preparation	Site Preparation	7/29/2022	8/25/2022	5	20	
3	Grading	Grading	8/26/2022	10/20/2022	5	40	
4	Building Construction	Building Construction	10/21/2022	6/1/2023	5	160	
5	Architectural Coating	Architectural Coating	5/1/2023	7/31/2023	5	66	
6	Paving	Paving	7/2/2023	7/31/2023	5	21	
7	Trenching	Trenching	6/2/2023	7/1/2023	5	21	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 40

Acres of Paving: 1.82

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 138,165; Non-Residential Outdoor: 46,055; Striped Parking Area: 3,710

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

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Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Trenchers	1	8.00	78	0.50
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Pavers	1	8.00	130	0.42

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	567.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	150.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0614	0.0000	0.0614	9.2900e-003	0.0000	9.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0614	0.0124	0.0738	9.2900e-003	0.0116	0.0208	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0500e-003	0.0408	0.0102	1.7000e-004	4.8800e-003	4.1000e-004	5.2900e-003	1.3400e-003	3.9000e-004	1.7300e-003	0.0000	16.4771	16.4771	7.0000e-004	2.6100e-003	17.2728
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.4000e-004	5.3200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.3193	1.3193	4.0000e-005	4.0000e-005	1.3315
Total	1.6200e-003	0.0413	0.0155	1.8000e-004	6.5200e-003	4.2000e-004	6.9400e-003	1.7800e-003	4.0000e-004	2.1700e-003	0.0000	17.7964	17.7964	7.4000e-004	2.6500e-003	18.6043

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	3.9700e-003	0.0000	3.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0262	0.0124	0.0387	3.9700e-003	0.0116	0.0155	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Mitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0500e-003	0.0408	0.0102	1.7000e-004	4.6600e-003	4.1000e-004	5.0700e-003	1.2900e-003	3.9000e-004	1.6800e-003	0.0000	16.4771	16.4771	7.0000e-004	2.6100e-003	17.2728
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.4000e-004	5.3200e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.2000e-004	0.0000	1.3193	1.3193	4.0000e-005	4.0000e-005	1.3315
Total	1.6200e-003	0.0413	0.0155	1.8000e-004	6.2200e-003	4.2000e-004	6.6400e-003	1.7100e-003	4.0000e-004	2.1000e-003	0.0000	17.7964	17.7964	7.4000e-004	2.6500e-003	18.6043

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1284	0.0000	0.1284	0.0671	0.0000	0.0671	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.2094	0.1164	2.3000e-004		0.0102	0.0102		9.3400e-003	9.3400e-003	0.0000	20.4711	20.4711	6.6200e-003	0.0000	20.6366
Total	0.0200	0.2094	0.1164	2.3000e-004	0.1284	0.0102	0.1386	0.0671	9.3400e-003	0.0764	0.0000	20.4711	20.4711	6.6200e-003	0.0000	20.6366

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.3000e-004	6.3900e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5832	1.5832	5.0000e-005	5.0000e-005	1.5978
Total	6.8000e-004	5.3000e-004	6.3900e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5832	1.5832	5.0000e-005	5.0000e-005	1.5978

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0549	0.0000	0.0549	0.0287	0.0000	0.0287	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.2094	0.1164	2.3000e-004		0.0102	0.0102		9.3400e-003	9.3400e-003	0.0000	20.4710	20.4710	6.6200e-003	0.0000	20.6366
Total	0.0200	0.2094	0.1164	2.3000e-004	0.0549	0.0102	0.0650	0.0287	9.3400e-003	0.0380	0.0000	20.4710	20.4710	6.6200e-003	0.0000	20.6366

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.3000e-004	6.3900e-003	2.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5832	1.5832	5.0000e-005	5.0000e-005	1.5978

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Total	6.8000e-004	5.3000e-004	6.3900e-003	2.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5832	1.5832	5.0000e-005	5.0000e-005	1.5978
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3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1417	0.0000	0.1417	0.0685	0.0000	0.0685	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.4171	0.3055	5.9000e-004		0.0188	0.0188		0.0173	0.0173	0.0000	52.1095	52.1095	0.0169	0.0000	52.5309
Total	0.0390	0.4171	0.3055	5.9000e-004	0.1417	0.0188	0.1605	0.0685	0.0173	0.0858	0.0000	52.1095	52.1095	0.0169	0.0000	52.5309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0108	2.6900e-003	4.0000e-005	1.2900e-003	1.1000e-004	1.4000e-003	3.5000e-004	1.0000e-004	4.6000e-004	0.0000	4.3590	4.3590	1.9000e-004	6.9000e-004	4.5695
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	8.9000e-004	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6386	2.6386	8.0000e-005	8.0000e-005	2.6631
Total	1.4100e-003	0.0117	0.0133	7.0000e-005	4.5800e-003	1.3000e-004	4.7100e-003	1.2200e-003	1.2000e-004	1.3500e-003	0.0000	6.9976	6.9976	2.7000e-004	7.7000e-004	7.2326

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0606	0.0000	0.0606	0.0293	0.0000	0.0293	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.4171	0.3055	5.9000e-004		0.0188	0.0188		0.0173	0.0173	0.0000	52.1095	52.1095	0.0169	0.0000	52.5308
Total	0.0390	0.4171	0.3055	5.9000e-004	0.0606	0.0188	0.0794	0.0293	0.0173	0.0466	0.0000	52.1095	52.1095	0.0169	0.0000	52.5308

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0108	2.6900e-003	4.0000e-005	1.2300e-003	1.1000e-004	1.3400e-003	3.4000e-004	1.0000e-004	4.4000e-004	0.0000	4.3590	4.3590	1.9000e-004	6.9000e-004	4.5695
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	8.9000e-004	0.0107	3.0000e-005	3.1200e-003	2.0000e-005	3.1400e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.6386	2.6386	8.0000e-005	8.0000e-005	2.6631
Total	1.4100e-003	0.0117	0.0133	7.0000e-005	4.3500e-003	1.3000e-004	4.4800e-003	1.1700e-003	1.2000e-004	1.2900e-003	0.0000	6.9976	6.9976	2.7000e-004	7.7000e-004	7.2326

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438
Total	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-003	0.0352	0.0125	1.4000e-004	4.8200e-003	4.0000e-004	5.2200e-003	1.3900e-003	3.8000e-004	1.7700e-003	0.0000	13.8912	13.8912	3.7000e-004	2.0600e-003	14.5136
Worker	7.4000e-003	5.8100e-003	0.0697	1.9000e-004	0.0215	1.2000e-004	0.0216	5.7200e-003	1.1000e-004	5.8200e-003	0.0000	17.2696	17.2696	4.9000e-004	5.0000e-004	17.4298
Total	8.7000e-003	0.0411	0.0822	3.3000e-004	0.0264	5.2000e-004	0.0269	7.1100e-003	4.9000e-004	7.5900e-003	0.0000	31.1607	31.1607	8.6000e-004	2.5600e-003	31.9433

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438
Total	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-003	0.0352	0.0125	1.4000e-004	4.6200e-003	4.0000e-004	5.0200e-003	1.3400e-003	3.8000e-004	1.7200e-003	0.0000	13.8912	13.8912	3.7000e-004	2.0600e-003	14.5136
Worker	7.4000e-003	5.8100e-003	0.0697	1.9000e-004	0.0204	1.2000e-004	0.0205	5.4400e-003	1.1000e-004	5.5500e-003	0.0000	17.2696	17.2696	4.9000e-004	5.0000e-004	17.4298
Total	8.7000e-003	0.0411	0.0822	3.3000e-004	0.0250	5.2000e-004	0.0255	6.7800e-003	4.9000e-004	7.2700e-003	0.0000	31.1607	31.1607	8.6000e-004	2.5600e-003	31.9433

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3336	126.3336	0.0301	0.0000	127.0849
Total	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3336	126.3336	0.0301	0.0000	127.0849

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8400e-003	0.0603	0.0244	2.9000e-004	0.0103	4.3000e-004	0.0107	2.9800e-003	4.1000e-004	3.3900e-003	0.0000	28.4953	28.4953	7.4000e-004	4.2100e-003	29.7687
Worker	0.0146	0.0109	0.1366	3.9000e-004	0.0460	2.3000e-004	0.0462	0.0122	2.1000e-004	0.0124	0.0000	35.9371	35.9371	9.4000e-004	9.8000e-004	36.2512
Total	0.0165	0.0712	0.1610	6.8000e-004	0.0563	6.6000e-004	0.0570	0.0152	6.2000e-004	0.0158	0.0000	64.4324	64.4324	1.6800e-003	5.1900e-003	66.0200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3334	126.3334	0.0301	0.0000	127.0848
Total	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3334	126.3334	0.0301	0.0000	127.0848

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8400e-003	0.0603	0.0244	2.9000e-004	9.8700e-003	4.3000e-004	0.0103	2.8700e-003	4.1000e-004	3.2800e-003	0.0000	28.4953	28.4953	7.4000e-004	4.2100e-003	29.7687
Worker	0.0146	0.0109	0.1366	3.9000e-004	0.0436	2.3000e-004	0.0439	0.0116	2.1000e-004	0.0119	0.0000	35.9371	35.9371	9.4000e-004	9.8000e-004	36.2512
Total	0.0165	0.0712	0.1610	6.8000e-004	0.0535	6.6000e-004	0.0542	0.0145	6.2000e-004	0.0151	0.0000	64.4324	64.4324	1.6800e-003	5.1900e-003	66.0200

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3200e-003	0.0430	0.0598	1.0000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	8.4257	8.4257	5.0000e-004	0.0000	8.4383
Total	0.4419	0.0430	0.0598	1.0000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	8.4257	8.4257	5.0000e-004	0.0000	8.4383

Unmitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7200e-003	1.2900e-003	0.0161	5.0000e-005	5.4300e-003	3.0000e-005	5.4500e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	4.2390	4.2390	1.1000e-004	1.2000e-004	4.2760
Total	1.7200e-003	1.2900e-003	0.0161	5.0000e-005	5.4300e-003	3.0000e-005	5.4500e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	4.2390	4.2390	1.1000e-004	1.2000e-004	4.2760

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3200e-003	0.0430	0.0598	1.0000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	8.4257	8.4257	5.0000e-004	0.0000	8.4383
Total	0.4419	0.0430	0.0598	1.0000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	8.4257	8.4257	5.0000e-004	0.0000	8.4383

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7200e-003	1.2900e-003	0.0161	5.0000e-005	5.1500e-003	3.0000e-005	5.1700e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	4.2390	4.2390	1.1000e-004	1.2000e-004	4.2760
Total	1.7200e-003	1.2900e-003	0.0161	5.0000e-005	5.1500e-003	3.0000e-005	5.1700e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	4.2390	4.2390	1.1000e-004	1.2000e-004	4.2760

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6400e-003	0.0923	0.1280	2.0000e-004		4.5700e-003	4.5700e-003		4.2300e-003	4.2300e-003	0.0000	17.1975	17.1975	5.4000e-003	0.0000	17.3326
Paving	2.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0120	0.0923	0.1280	2.0000e-004		4.5700e-003	4.5700e-003		4.2300e-003	4.2300e-003	0.0000	17.1975	17.1975	5.4000e-003	0.0000	17.3326

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.5000e-004	6.8300e-003	2.0000e-005	2.3000e-003	1.0000e-005	2.3100e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7984	1.7984	5.0000e-005	5.0000e-005	1.8141

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Total	7.3000e-004	5.5000e-004	6.8300e-003	2.0000e-005	2.3000e-003	1.0000e-005	2.3100e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7984	1.7984	5.0000e-005	5.0000e-005	1.8141
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6400e-003	0.0923	0.1280	2.0000e-004		4.5700e-003	4.5700e-003		4.2300e-003	4.2300e-003	0.0000	17.1975	17.1975	5.4000e-003	0.0000	17.3326
Paving	2.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0120	0.0923	0.1280	2.0000e-004		4.5700e-003	4.5700e-003		4.2300e-003	4.2300e-003	0.0000	17.1975	17.1975	5.4000e-003	0.0000	17.3326

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.5000e-004	6.8300e-003	2.0000e-005	2.1800e-003	1.0000e-005	2.1900e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.7984	1.7984	5.0000e-005	5.0000e-005	1.8141
Total	7.3000e-004	5.5000e-004	6.8300e-003	2.0000e-005	2.1800e-003	1.0000e-005	2.1900e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.7984	1.7984	5.0000e-005	5.0000e-005	1.8141

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3.8 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2400e-003	0.0698	0.0809	1.2000e-004		4.0800e-003	4.0800e-003		3.7500e-003	3.7500e-003	0.0000	10.3255	10.3255	3.3400e-003	0.0000	10.4090
Total	7.2400e-003	0.0698	0.0809	1.2000e-004		4.0800e-003	4.0800e-003		3.7500e-003	3.7500e-003	0.0000	10.3255	10.3255	3.3400e-003	0.0000	10.4090

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.7300e-003	1.0000e-005	9.2000e-004	0.0000	9.3000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7193	0.7193	2.0000e-005	2.0000e-005	0.7256
Total	2.9000e-004	2.2000e-004	2.7300e-003	1.0000e-005	9.2000e-004	0.0000	9.3000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7193	0.7193	2.0000e-005	2.0000e-005	0.7256

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2400e-003	0.0698	0.0809	1.2000e-004		4.0800e-003	4.0800e-003		3.7500e-003	3.7500e-003	0.0000	10.3255	10.3255	3.3400e-003	0.0000	10.4090
Total	7.2400e-003	0.0698	0.0809	1.2000e-004		4.0800e-003	4.0800e-003		3.7500e-003	3.7500e-003	0.0000	10.3255	10.3255	3.3400e-003	0.0000	10.4090

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.7300e-003	1.0000e-005	8.7000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.7193	0.7193	2.0000e-005	2.0000e-005	0.7256
Total	2.9000e-004	2.2000e-004	2.7300e-003	1.0000e-005	8.7000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.7193	0.7193	2.0000e-005	2.0000e-005	0.7256

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0640	0.1095	0.7102	1.5900e-003	0.1630	1.2800e-003	0.1643	0.0435	1.2000e-003	0.0447	0.0000	148.9871	148.9871	8.2100e-003	7.3500e-003	151.3834
Unmitigated	0.0640	0.1095	0.7102	1.5900e-003	0.1630	1.2800e-003	0.1643	0.0435	1.2000e-003	0.0447	0.0000	148.9871	148.9871	8.2100e-003	7.3500e-003	151.3834

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	108.69	108.69	108.69	432,247	432,247
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.69	108.69	108.69	432,247	432,247

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Industrial Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	150.4442	150.4442	0.0127	1.5400e-003	151.2203
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	150.4442	150.4442	0.0127	1.5400e-003	151.2203
NaturalGas Mitigated	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598
NaturalGas Unmitigated	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	315937	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	315937	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.7000e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8596	16.8596	3.2000e-004	3.1000e-004	16.9598

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	846491	150.1214	0.0127	1.5400e-003	150.8958
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1820	0.3228	3.0000e-005	0.0000	0.3244
Total		150.4442	0.0127	1.5400e-003	151.2203

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	846491	150.1214	0.0127	1.5400e-003	150.8958
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1820	0.3228	3.0000e-005	0.0000	0.3244

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Total		150.4442	0.0127	1.5400e-003	151.2203
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Unmitigated	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0436					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Total	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0436					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003
Total	0.3819	1.0000e-005	1.3700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6700e-003	2.6700e-003	1.0000e-005	0.0000	2.8400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	46.2329	0.5587	0.0135	64.2321
Unmitigated	57.5179	0.6984	0.0169	80.0154

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.798292	1.5729	1.3000e-004	2.0000e-005	1.5810
Industrial Park	21.3004 / 0	55.9450	0.6982	0.0169	78.4344
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		57.5178	0.6984	0.0169	80.0154

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.749597	1.4769	1.2000e-004	2.0000e-005	1.4846
Industrial Park	17.0404 / 0	44.7560	0.5586	0.0135	62.7475
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		46.2329	0.5587	0.0135	64.2321

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.5989	0.6855	0.0000	28.7358
Unmitigated	23.1978	1.3710	0.0000	57.4716

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
Industrial Park	114.22	23.1856	1.3702	0.0000	57.4414
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		23.1978	1.3710	0.0000	57.4716

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.03	6.0900e-003	3.6000e-004	0.0000	0.0151
Industrial Park	57.11	11.5928	0.6851	0.0000	28.7207
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		11.5989	0.6855	0.0000	28.7358

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**1300 East Highland Avenue
San Bernardino-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	92.11	1000sqft	2.11	92,110.00	0
Other Asphalt Surfaces	1.70	Acre	1.70	74,052.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0
City Park	0.67	Acre	0.67	29,185.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - land use
- Construction Phase - anticipated construction schedule
- Off-road Equipment - anticipated consutrction
- Demolition -
- Grading - Based on grading estimates
- Vehicle Trips - per trip gen memo
- Construction Off-road Equipment Mitigation - SCAQMD rule compliance
- Water Mitigation -
- Waste Mitigation - per AB 939
- Off-road Equipment - Based on construction estimates
- Trips and VMT - Construction estimates
- Architectural Coating - Construction estimates
- Area Coating - Based on construction estimates

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	4,755.00	3,710.00
tblAreaCoating	Area_Parking	4755	3710
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	160.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	20.00
tblGrading	AcresOfGrading	20.00	15.00
tblGrading	MaterialExported	0.00	1,200.00
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblTripsAndVMT	VendorTripNumber	33.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	84.00	77.00
tblTripsAndVMT	WorkerTripNumber	17.00	15.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.54	1.18
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.24	1.18
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.37	1.18

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.8099	29.6235	22.2202	0.0570	13.0408	1.2841	14.0568	6.7597	1.1949	7.6944	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037
2023	15.3571	16.9572	21.9661	0.0445	1.2205	0.7835	2.0041	0.3281	0.7415	1.0696	0.0000	4,352.3476	4,352.3476	0.6622	0.1071	4,400.8256
Maximum	15.3571	29.6235	22.2202	0.0570	13.0408	1.2841	14.0568	6.7597	1.1949	7.6944	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.8099	29.6235	22.2202	0.0570	5.6796	1.2841	6.6956	2.9177	1.1949	3.8525	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037
2023	15.3571	16.9572	21.9661	0.0445	1.1587	0.7835	1.9422	0.3129	0.7415	1.0544	0.0000	4,352.3476	4,352.3476	0.6622	0.1071	4,400.8256
Maximum	15.3571	29.6235	22.2202	0.0570	5.6796	1.2841	6.6956	2.9177	1.1949	3.8525	0.0000	5,719.9349	5,719.9349	1.1343	0.2917	5,835.2037

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.05	0.00	46.22	54.42	0.00	44.01	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Energy	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Mobile	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921
Total	2.5043	0.6392	4.3091	9.8300e-003	0.9128	0.0135	0.9263	0.2435	0.0131	0.2565		1,061.6779	1,061.6779	0.0504	0.0447	1,076.2554

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Energy	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Mobile	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921
Total	2.5043	0.6392	4.3091	9.8300e-003	0.9128	0.0135	0.9263	0.2435	0.0131	0.2565		1,061.6779	1,061.6779	0.0504	0.0447	1,076.2554

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	7/28/2022	5	20	
2	Site Preparation	Site Preparation	7/29/2022	8/25/2022	5	20	
3	Grading	Grading	8/26/2022	10/20/2022	5	40	
4	Building Construction	Building Construction	10/21/2022	6/1/2023	5	160	
5	Architectural Coating	Architectural Coating	5/1/2023	7/31/2023	5	66	
6	Paving	Paving	7/2/2023	7/31/2023	5	21	
7	Trenching	Trenching	6/2/2023	7/1/2023	5	21	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 40

Acres of Paving: 1.82

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 138,165; Non-Residential Outdoor: 46,055; Striped Parking Area: 3,710

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Trenchers	1	8.00	78	0.50
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Pavers	1	8.00	130	0.42

Trips and VMT

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	567.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	150.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1376	0.0000	6.1376	0.9293	0.0000	0.9293			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	6.1376	1.2427	7.3802	0.9293	1.1553	2.0846		3,746.7812	3,746.7812	1.0524		3,773.0920

Unmitigated Construction Off-Site

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1072	3.8639	1.0081	0.0167	0.4965	0.0406	0.5371	0.1361	0.0388	0.1750		1,815.7185	1,815.7185	0.0778	0.2877	1,903.4066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.1707	3.9041	1.6261	0.0182	0.6641	0.0415	0.7056	0.1806	0.0396	0.2203		1,973.1537	1,973.1537	0.0818	0.2917	2,062.1117

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6238	0.0000	2.6238	0.3973	0.0000	0.3973			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	2.6238	1.2427	3.8665	0.3973	1.1553	1.5525	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.1072	3.8639	1.0081	0.0167	0.4740	0.0406	0.5146	0.1306	0.0388	0.1695		1,815.7185	1,815.7185	0.0778	0.2877	1,903.4066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1589	8.8000e-004	0.1598	0.0423	8.1000e-004	0.0431		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.1707	3.9041	1.6261	0.0182	0.6329	0.0415	0.6744	0.1729	0.0396	0.2126		1,973.1537	1,973.1537	0.0818	0.2917	2,062.1117

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.8396	0.0000	12.8396	6.7063	0.0000	6.7063			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338		2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	12.8396	1.0150	13.8545	6.7063	0.9338	7.6401		2,256.5486	2,256.5486	0.7298		2,274.7939

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0762	0.0483	0.7415	1.8600e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461
Total	0.0762	0.0483	0.7415	1.8600e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4889	0.0000	5.4889	2.8670	0.0000	2.8670			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	5.4889	1.0150	6.5039	2.8670	0.9338	3.8007	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0762	0.0483	0.7415	1.8600e-003	0.1907	1.0600e-003	0.1918	0.0508	9.7000e-004	0.0518		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461
Total	0.0762	0.0483	0.7415	1.8600e-003	0.1907	1.0600e-003	0.1918	0.0508	9.7000e-004	0.0518		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0860	0.0000	7.0860	3.4253	0.0000	3.4253			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.0860	0.9409	8.0268	3.4253	0.8656	4.2908		2,872.0464	2,872.0464	0.9289		2,895.2684

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0142	0.5111	0.1334	2.2100e-003	0.0657	5.3700e-003	0.0710	0.0180	5.1400e-003	0.0231		240.1744	240.1744	0.0103	0.0381	251.7734
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.0777	0.5513	0.7513	3.7600e-003	0.2333	6.2500e-003	0.2396	0.0625	5.9500e-003	0.0684		397.6096	397.6096	0.0144	0.0420	410.4784

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0293	0.0000	3.0293	1.4643	0.0000	1.4643			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	3.0293	0.9409	3.9701	1.4643	0.8656	2.3299	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0142	0.5111	0.1334	2.2100e-003	0.0627	5.3700e-003	0.0681	0.0173	5.1400e-003	0.0224		240.1744	240.1744	0.0103	0.0381	251.7734
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0402	0.6179	1.5500e-003	0.1589	8.8000e-004	0.1598	0.0423	8.1000e-004	0.0431		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
Total	0.0777	0.5513	0.7513	3.7600e-003	0.2216	6.2500e-003	0.2279	0.0596	5.9500e-003	0.0655		397.6096	397.6096	0.0144	0.0420	410.4784

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3137	0.4821	5.6000e-003	0.1922	0.0156	0.2078	0.0554	0.0150	0.0703		600.2065	600.2065	0.0162	0.0888	627.0806
Worker	0.3261	0.2066	3.1721	7.9400e-003	0.8607	4.5200e-003	0.8652	0.2283	4.1600e-003	0.2324		808.1673	808.1673	0.0210	0.0201	814.6859
Total	0.3784	1.5203	3.6542	0.0135	1.0529	0.0202	1.0730	0.2836	0.0191	0.3027		1,408.3738	1,408.3738	0.0372	0.1089	1,441.7665

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3137	0.4821	5.6000e-003	0.1840	0.0156	0.1996	0.0533	0.0150	0.0683		600.2065	600.2065	0.0162	0.0888	627.0806
Worker	0.3261	0.2066	3.1721	7.9400e-003	0.8158	4.5200e-003	0.8203	0.2172	4.1600e-003	0.2214		808.1673	808.1673	0.0210	0.0201	814.6859
Total	0.3784	1.5203	3.6542	0.0135	0.9998	0.0202	1.0199	0.2706	0.0191	0.2897		1,408.3738	1,408.3738	0.0372	0.1089	1,441.7665

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0351	1.0523	0.4416	5.3700e-003	0.1922	7.9100e-003	0.2001	0.0554	7.5600e-003	0.0629		575.7545	575.7545	0.0151	0.0850	601.4676
Worker	0.3011	0.1817	2.9038	7.6900e-003	0.8607	4.2500e-003	0.8649	0.2283	3.9100e-003	0.2322		786.6848	786.6848	0.0188	0.0185	792.6672
Total	0.3362	1.2340	3.3453	0.0131	1.0529	0.0122	1.0650	0.2836	0.0115	0.2951		1,362.4393	1,362.4393	0.0338	0.1035	1,394.1348

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0351	1.0523	0.4416	5.3700e-003	0.1840	7.9100e-003	0.1919	0.0533	7.5600e-003	0.0609		575.7545	575.7545	0.0151	0.0850	601.4676
Worker	0.3011	0.1817	2.9038	7.6900e-003	0.8158	4.2500e-003	0.8200	0.2172	3.9100e-003	0.2212		786.6848	786.6848	0.0188	0.0185	792.6672
Total	0.3362	1.2340	3.3453	0.0131	0.9998	0.0122	1.0119	0.2706	0.0115	0.2820		1,362.4393	1,362.4393	0.0338	0.1035	1,394.1348

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.1978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	13.3895	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.1978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	13.3895	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0587	0.0354	0.5657	1.5000e-003	0.1589	8.3000e-004	0.1598	0.0423	7.6000e-004	0.0431		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	0.0587	0.0354	0.5657	1.5000e-003	0.1589	8.3000e-004	0.1598	0.0423	7.6000e-004	0.0431		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.2271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1452	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0782	0.0472	0.7542	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876
Total	0.0782	0.0472	0.7542	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.2271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1452	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0782	0.0472	0.7542	2.0000e-003	0.2119	1.1000e-003	0.2130	0.0564	1.0200e-003	0.0574		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876
Total	0.0782	0.0472	0.7542	2.0000e-003	0.2119	1.1000e-003	0.2130	0.0564	1.0200e-003	0.0574		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876

3.8 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576		1,083.9937	1,083.9937	0.3506		1,092.7584
Total	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576		1,083.9937	1,083.9937	0.3506		1,092.7584

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0189	0.3017	8.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550
Total	0.0313	0.0189	0.3017	8.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576	0.0000	1,083.9937	1,083.9937	0.3506		1,092.7584
Total	0.6900	6.6516	7.7065	0.0112		0.3887	0.3887		0.3576	0.3576	0.0000	1,083.9937	1,083.9937	0.3506		1,092.7584

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0189	0.3017	8.0000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.1000e-004	0.0230		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550
Total	0.0313	0.0189	0.3017	8.0000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.1000e-004	0.0230		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921
Unmitigated	0.4020	0.5543	4.2269	9.3200e-003	0.9128	7.0500e-003	0.9198	0.2435	6.6000e-003	0.2501		959.8212	959.8212	0.0483	0.0428	973.7921

1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	108.69	108.69	108.69	432,247	432,247
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.69	108.69	108.69	432,247	432,247

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Industrial Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	lb/day										lb/day						
NaturalGas Mitigated	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003			101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
NaturalGas Unmitigated	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003			101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	865.582	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	0.865582	9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.3300e-003	0.0849	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.8331	101.8331	1.9500e-003	1.8700e-003	102.4383

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Unmitigated	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0200e-003	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Total	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0200e-003	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251
Total	2.0930	1.0000e-004	0.0110	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0235	0.0235	6.0000e-005		0.0251

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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1300 East Highland Avenue - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

APPENDIX 6: CULTURAL RESOURCE ASSESSMENT PRELIMINARY RESULTS



December 31, 2021

Rita Garcia
Kimley-Horn
3880 Lemon Street, Suite 420
Riverside, California 92501

Subject: Preliminary Results for a Cultural Resources Assessment of the 1300 East Highland Project, San Bernardino, San Bernardino County, California (BCR Consulting Project No. KIM2124)

Dear Rita:

BCR Consulting LLC (BCR Consulting) is presenting you with the preliminary results for a Cultural Resources Assessment of the 1300 East Highland Project (project) located in the City of San Bernardino (City), San Bernardino County, California. Final results will be submitted upon receipt of the records search results, receipt of the paleontological overview, receipt of Sacred Lands File search results, and completion of the field survey.

Research

The South Central Coastal Information Center (SCCIC) research results has not been completed. Initial research indicated that the project site was occupied by the Mediterranean Restaurant that opened circa 1968. Since the restaurant was over 45 years old, identification and evaluation efforts would typically be required under CEQA. However, it was reportedly destroyed by fire and as such does not warrant further consideration. It is not known whether prehistoric or historic-period archaeological resources have been previously identified at the project site or in the area.

Field Survey

Fieldwork is pending. However, aerial photograph review indicates that the project site has been highly disturbed by construction of the former restaurant and parking lot. Unpaved areas have been subject to mechanical clearing and discing for weed abatement.

Report

The cultural resources report is being prepared. It cannot be finalized until the results of the records search and field survey are ready. Based on the above information, historic-period built environment resources are not present. The previous excavation indicates that undisturbed archaeological remains on the surface are not likely. **As such, development constraints and mitigations related to physical evidence for cultural resources are not anticipated.**

Paleontological Overview

The paleontological overview has been requested but not received.

Native American Heritage Commission Sacred Lands File Search

The Sacred Lands File search results with the Native American Heritage Commission has not been received yet. Any concerns raised by individual tribes would be addressed during

Assembly Bill 52 Native American Consultation initiated by the City. The results of this consultation would determine any potential for constraints associated with Tribal Cultural Resources.

If you have any questions or comments regarding these preliminary results, please contact me at 909-525-7078 or david.brunzell@yahoo.com.

Sincerely,

BCR Consulting LLC

A handwritten signature in black ink, appearing to read "David Brunzell", written in a cursive style.

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist

APPENDIX 7: PUBLIC WORKS DEPARTMENT CONDITIONS OF APPROVAL



City of San Bernardino

Public Works Department
Conditions of Approval

ATTACHMENT C

Date: **Updated 1-31-2022**

Location: **1320 E. Highland Avenue e/o Golden Avenue**

Case Number: **CUP21-19**

1. Drainage and Flood Control

- a)
- b)
- c)
- d)
- e)
- f)
- g)
- h)
- i)
- j)

2. Grading and Landscaping

- a)
- b)
- c)
- d)
- e)
- f)
- g)

- h)
- i)
- j)

3. On-site Utilities

- a)
- b)
- c)
- d)
- e)
- f)

4. Offsite Street Improvement and Dedications

Project: *1320 E. Highland Ave eo Golden Ave* Case No. *CUP21-19*

Date: *Updated 1-31-22*

- a) For the streets listed below, dedication of adequate street right-of-way (R.W.) per the General Plan and Municipal Code shall provide the distance from street centerline to property line and placement of the curb line (C.L.) in relation to the street centerline shall be as follows:

<u>Street Name</u>	Dedication shall be Right of Way(ft.) From Centerline	Curb Widening shall be Curb Line(ft) From Centerline
Highland Avenue (150-471-04, 150-471-05 150-471-06, 150-471-07)	41.25' Existing 8.75' Dedication for a total ½ width of 50' "Major Arterial"	32'± Existing (36' Proposed Future) Per General Plan

b) Highland Avenue – TI = 10.0 : * - **

- i) The street shall be rehabilitated to meet the requirements detailed in a soils report based on the "R" value of the subgrade and the traffic Index. The City's has a minimum of 2" Grind and Overlay; However, the Soils Report may indicate a thicker or different improvement.
- ii) When Striping, all striping shall be thermoplastic paint per section 84 of the Caltrans specifications.

- iii) The existing curb & gutter, sidewalk, and driveway fronting the site are in poor condition, any curb & gutter panels, sidewalk panels, and driveways that are lifted, cracked, or do not meet current ADA requirements shall be replaced.
- iv) Remove existing driveways that are not being used under the project plans and replace with Curb Gutter and Sidewalk per city Standards.
- v) Construct Commercial Driveway Approach per City Standard No. 204, Type II, including an accessible by-pass around the top of the drive approach. Minimum Width is 26'. No Driveways closer than 100' from BCR/ECR as directed by the City Engineer.
- vi) Driveways in Commercial, Industrial, or multi-Family units, no gates shall be placed closer or impede 40' from back of sidewalk, as directed by the Traffic Engineer.
- vii) When Replacing/Reconstructing Curb and Gutter panels, Construct 8" Curb and Gutter per City Standard No. 200, type "B".
- viii) ~~Construct 8" Curb transition from existing to match new curb and gutter for approach or departure traffic safety and drainage as approved by the City Engineer.~~ Based on widening not happening at this time.
- ix) When Replacing or reconstructing Sidewalk panels, Construct Sidewalk per City Standard No. 202; Case "A" (6' wide adjacent to curb).
- x) Remove Street Lights from SCE wooden poles.
- xi) Install LED Street Lights System adjacent to the site in accordance with City Standard No's. SL-1, SL-2, and SL-3. Also, a separate light sheet shall be submitted in accordance with the City of San Bernardino Street Lighting Design Policies. Install ID Plate on Street light pole. Connect to Existing Street Light System.
- xii) ~~Install type II Bike Lane per "Manual Uniform Traffic Control Devices—California", as directed by the City Traffic Engineer.~~ Based on Widening not happening at this time, Safety of the width of the street limits ability to have the bike lane installed.
- xiii) Construct Bus Stop Street Pad per APWA-SPPWC and Omni-Trans Standards.
- xiv) Underground existing Poles, as directed by the City Engineer. ~~Waiting for SCE to give voltage of power poles to determine the ability to not underground.~~
- xv) When Replacing/Reconstructing or Constructing sidewalk, install 2-3" Conduit 36" under the sidewalk with pull rope and pull boxes for future Traffic connections.

- xvi) No Parking will be allowed on Highland Avenue, install signs per city standards
- xvii) Survey Monuments and ties shall be placed, replaced, tied out and recorded at any corner or alignment changes that are adjacent to the project area in accordance with California Land Surveyors Association – Monument Preservation Guidelines, Copies of Recorded Monuments/Ties shall be delivered to Public Works/Engineering.
- xviii) In Lieu Fee for not widening at this time is estimated at \$25,221 for Curb & Gutter, Sidewalk, A/C Pavement.

* These Conditions are set for an estimated construction with-in two years. If construction exceeds two years from DERC Approval these conditions shall be reviewed and updated as needed.

**If a Scoping Form is required, this form shall indicate the need of a Traffic Report, the results of the traffic report shall become conditions of this project which may increase or extend the above requirements in section 1(b) and 5(a).

- c) With Submittal of improvement plans including but not limited to grading plans, Street improvement plans, storm drain and retention/detention basin plans, and erosion/sediment control plans, The Applicant shall cause to be formed, or shall be annexed into an existing, Community Facilities District(s) (CFD) for landscaping, lighting, streets, drainage facilities, street sweeping, graffiti removal, or other infrastructure as required by the City to the satisfaction of the City Engineer. The Applicant shall initiate the maintenance and benefit assessment district(s) formation, or annexation, by submitting a landowner petition and consent form (provided by the City) and deposited necessary fees concurrent with the application for street and grading plan review and approval; and said maintenance and benefit assessment district(s) shall be established concurrent with the approval of the final map in the case of the subdivision of land, or prior issuance of any certificate of occupancy where there is no subdivision of land, and as approved by the City Engineer.
- d) If a drainage report is required by Land Development, A second copy of the drainage report will be delivered to public works, if offsite or overflow storm drain systems are identified, all systems shall be identified on the street improvement plans, and public storm drain shall be on a separate set of plans.
- e) Blank
- f) A temporary construction encroachment permit from Public Works Department shall be required for utility cuts into existing streets or any work within City's right-of-way. Pavement restoration or trench repair shall be in conformance with City Standard No. 310. Public facilities shall be restored or constructed back to Public Works Department satisfaction.
- g) Blank

- h) Any pavement works affecting the traffic loop detectors shall be coordinated and subjected to Public Works Traffic Division requirements.
- i) The applicant must post a performance bond prior to issuance of the off-site permit. The amount of the bond is to be determined by Public Works Department.
- j) The above conditions shall comply with current codes, policies, and standards at time of construction.
- k) Prior to Certificate of Occupancy or Completion of Project all As-builts and Centerline Ties shall be submitted to Public Works.

5. **Required Engineering Plans**

- a) A complete submittal for plan checking shall consist of:
 - street improvement plans (include engineering conditions, city standards, and cross sections in these plans),
 - if storm drain plans are required then public storm drains must be included on separate sheets with profiles in the street improvement plans, private storm drains shall be shown separate sheets with profiles in the on-site improvement plans,
 - if traffic signal modifications are required, then traffic signal plans shall be submitted on separate plan sheets included in the street improvement plans,
 - if signing and striping are required, then the signing and striping plan shall be on separate sheets included in the street improvement plans,
 - if lighting is required (more than 2) then the lighting for offsite plans shall be on separate sheets included in the street improvement plans, if two (2) or less then they can be included directly on the street improvement sheets,
 - CFD's are required, the CFD Plans shall include Landscaping, Irrigation, Basins, etc. items that are included in the CFD that are not listed in the plans above, shall be on separate sheets included in the street improvement plans.
 - other plans as required. Piecemeal submittal of various types of plans for the same project will not be allowed.
 - All required supporting calculations, studies and reports must be included in the initial submittal (including but not limited to drainage studies, soils reports, structural calculations)
- b) All off-site improvement plans submitted for plan check shall be prepared on the City's standard 24" x 36" sheets. A signature block (city standard block) satisfactory to the City Engineer or his designee can be found on the City Web Site <http://www.sbcity.org>. or

http://www.ci.san-bernardino.ca.us/cityhall/publicworks/engineering_division/engineering_development_resources/default.asp. Engineering conditions of the project shall be inserted in the last pages of the plans.

- c) After completion of plan checking, final mylar drawings with city standard block, stamped and signed by the Registered Civil Engineer in charge, shall be submitted to the City Engineer for approval.
- d) Electronic files of all improvement plans/drawings shall be submitted to the City Engineer. The files shall be compatible with AutoCAD 2021 and include a .dxf file of the project. Files shall be on CD and shall be submitted at the same time the final mylar drawings are submitted for approval.
- e) Copies of the City's design policies and procedures and standard drawings are available at the Public Works Counter for the cost of reproduction. They are also available at no charge at the Public Works Web Site at <http://www.sbcity.org> or http://www.ci.san-bernardino.ca.us/cityhall/publicworks/engineering_division/design_policy_and_procedure_documents.asp

6. **Traffic Requirements**

- a) All Traffic mitigation measures shall be implemented according to the recommendations of the City Traffic Engineer prior to Street Improvement plan approval.
- b) All Public Works offsite Mitigation Monitoring and Reporting Program items shall be shown with the Conditions of Approval on the last pages of Public Works Offsite Plans.
- c)
- d)
- e)

7. **Integrated Solid Waste Management**

- a)
- b)
- c)
- d)
- e)

- f)
- g)
- h)

8. Required Engineering Permits

- a) Off-site improvement construction permits.
- b) Traffic Control and ROW Permits.
- c)
- d)
- e)

9. Applicable Engineering Fees

- a) All plan check, permit, inspection, and impact fees are outlined on the Public Works Fee Schedule. A deposit in the amount of 100% of the estimated checking fee for each set of plans will be required at time of application for plan check. The amount of the fee is subject to adjustment at time of issuance.
- b) The current fee schedule is available at the Public Works Counter and at <http://www.sbcity.org> or http://www.ci.san-bernardino.ca.us/cityhall/publicworks/engineering_division/engineering_fee_schedule.asp
- c)
- d)
- e)
- f)