

FINAL TRIBAL ENVIRONMENTAL IMPACT REPORT APPENDICES

Jamul Casino Hotel and Event Center Project



Lead Agency:

Jamul Indian Village of California



December 2022

Appendix A
TEIR Checklist

APPENDIX B

Off-Reservation Environmental Impact Analysis Checklist

I. AESTHETICS

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Create a new source of substantial light or glare which would adversely affect day or nighttime views of historic buildings or views in the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

See TEIR Section 3.2, Aesthetics

II. AGRICULTURAL AND FOREST RESOURCES

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Involve changes in the existing environment, which, due to their location or nature, could result in conversion of off-reservation farmland to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

No off-reservation agricultural lands would be converted to non-agricultural lands as a result of the Proposed Project.

III. AIR QUALITY

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Violate any air quality standard or contribute to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions, which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Expose off-reservation sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people off-reservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

See TEIR Section 3.3, Air Quality.

IV. BIOLOGICAL RESOURCES

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Have a substantial adverse impact, either directly or through habitat modifications, on any species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

b) Have a substantial adverse effect on any off-reservation riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Have a substantial adverse effect on federally protected off-reservation wetlands as defined by Section 404 of the Clean Water Act?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

See TEIR Section 3.4, biological resources.

V. CULTURAL RESOURCES

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of an off-reservation historical or archeological resource?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Directly or indirectly destroy a unique off-reservation paleontological resource or site or unique off-reservation geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

c) Disturb any off-reservation human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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See TEIR Section 3.5, Cultural Resources.

VI. GEOLOGY AND SOILS

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Expose off-reservation people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: <ul style="list-style-type: none"> i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. ii. Strong seismic ground shaking? iii. Seismic-related ground failure, including liquefaction? iv. Landslides? 	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Result in substantial off-reservation soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

See TEIR Section 3.6, Geology and Soils.

VII. HAZARDS AND HAZARDOUS MATERIALS

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Create a significant hazard to the off-reservation public or the off-reservation environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the off-reservation public or the off-reservation environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed off-reservation school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Expose off-reservation people or structures to a significant risk of loss, injury or death involving wildland fires.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

See TEIR Section 3.7, Hazards and Hazardous Materials.

VIII. WATER RESOURCES

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially deplete off-reservation groundwater supplies or interfere substantially with	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

groundwater recharge such that there should be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff off-reservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Place within a 100-year flood hazard area structures, which would impede or redirect off-reservation flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Expose off-reservation people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

See TEIR Section 3.13, Water Resources.

IX. LAND USE

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Conflict with any off-reservation land use plan, policy, or regulation of an agency adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with any applicable habitat conservation plan or natural communities conservation plan covering off-reservation lands?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

See TEIR Section 3.8, Land Use.

X. MINERAL RESOURCES

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Result in the loss of availability of a known off-reservation mineral resource classified MRZ-2 by the State Geologist that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of an off-reservation locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Implementation of the Proposed Project would not adversely impact any known off-reservation mineral resources.

XI. NOISE

Would the project result in:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Exposure of off-reservation persons to noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Exposure of off-reservation persons to excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the off-reservation vicinity of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the off-reservation vicinity of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

See TEIR Section 3.9, Noise

XII. POPULATION AND HOUSING

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Induce substantial off-reservation population growth?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere off-reservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

No substantial off-reservation population increases are anticipated as a result of the proposed project, and the proposed project will not displace off-reservation housing.

XIII. PUBLIC SERVICES

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered off-reservation governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the off-reservation public services: <ul style="list-style-type: none"> i. Fire protection? ii. Police Protection? iii. Schools? iv. Parks? v. Other public facilities? 				

See TEIR Section 3.10, Public Services.

XIV. RECREATION

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Increase the use of existing off-reservation neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The Proposed Project will create an expanded entertainment and recreational opportunity in San Diego County. While the increase in patron trips to the area and the provision of additional overnight accommodations resulting from the Proposed Project may result in an increase in the use of regional recreational facilities, the increase would be minor and not sufficient to adversely affect existing recreational facilities or require the construction of new facilities.

XV. TRANSPORTATION / TRAFFIC

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Cause an increase in off-reservation traffic, which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume-to-capacity ratio on roads, or congestion at intersections)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated off-reservation roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

c) Substantially increase hazards to an off-reservation design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Result in inadequate emergency access for off-reservation responders?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

See TEIR Section 3.11, Transportation and Traffic

XVI. UTILITIES AND SERVICE SYSTEMS

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Exceed off-reservation wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant off-reservation environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant off-reservation environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Result in a determination by an off-reservation wastewater treatment provider (if applicable), which serves or may serve the project that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

See TEIR Section 3.12, Utilities

XVII. CUMULATIVE EFFECTS

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Impact	No Impact
a) Have impacts that are individually limited, but cumulatively considerable off-reservation? "Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past, current, or probable future projects.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

See TEIR Section 4.4, Cumulative Impacts.

Appendix B

NOP and Scoping Comment Letters

NOTICE OF PREPARATION OF A TRIBAL ENVIRONMENTAL IMPACT REPORT FOR THE JAMUL CASINO HOTEL AND EVENT CENTER PROJECT

DATE: May 20, 2022

TO: State Clearinghouse
County of San Diego
Interested Parties

LEAD AGENCY: Jamul Indian Village of California
14191 Highway 94
Jamul, CA 91935

PROJECT TITLE: **Jamul Casino Hotel and Event Center Project**

PROJECT WEBSITE www.jamulteir.com

COMMENT PERIOD: Friday, May 20 – Monday, June 20, 2022

The Jamul Indian Village Development Corporation, a wholly owned subsidiary and instrumentality of the Jamul Indian Village of California (Tribe), owns and operates the Jamul Casino situated on federally owned land that is held in trust for the Tribe and located at 14145 Campo Road, Jamul, CA 91935 (Reservation).

The Jamul Casino is operated pursuant to the Tribal-State Compact between the State of California and the Jamul Indian Village of California (Compact). Section 11 of the Compact requires that, before beginning the construction of any new “Project” (as defined in Section 2.22 of the Compact), the Tribe must prepare a Tribal Environmental Impact Report (TEIR) analyzing the potentially significant off-Reservation environmental impacts of that Project. That environmental analysis is to be conducted pursuant to the process described in the Compact.

The Tribe has authorized the preparation of a TEIR for a potential project on the Reservation that would remodel the existing Jamul Casino to include a new event center and 226-room hotel (Proposed Project). The Proposed Project is a “Project” under the Compact and, therefore, requires a TEIR.

This Notice is given pursuant to the Compact to inform interested parties that the Tribe is beginning the TEIR process and that, as required by that process, a draft of the TEIR for the Proposed Project will be prepared. That draft TEIR will address each of the items listed in the Off-Reservation Environmental Impact Analysis Checklist included in Appendix B to the Compact.

The Compact provides that interested parties may, at any time within thirty (30) days after the date on which this Notice is received by the State Clearinghouse in the State Office of Planning and Research (State

Clearinghouse) and the County of San Diego (County), provide comments to the Tribe. The Tribe requests that you identify in your comments any potentially significant off-Reservation environmental impacts, and any reasonable mitigation measures to address those impacts, that you believe should be considered in the draft TEIR for the Proposed Project. Comments should be in writing and sent by email or mail to the following address with the subject heading "Comments Re: NOP for the Jamul Casino Hotel and Event Center Project". Please send your comments to:

Email: Admin@JamulTEIR.com

Mail: Jamul Indian Village of California
Attn: Chairwoman Erica M. Pinto
P.O. Box 612
Jamul, CA 91935

All comments postmarked by June 20, 2022 will be reviewed and considered by the Tribe. A project description, location map, and site plan for the Proposed Project, as well as a brief description of the environmental areas in which off-Reservation impacts attributable to the Proposed Project may be probable, are included in the following pages of this Notice. The description of probable off-Reservation environmental impacts of the Proposed Project in this Notice has been prepared before the analysis required to complete the TEIR has been completed. Accordingly, the description of probable impacts in this Notice is subject to the results of the analysis in the TEIR, and the potentially significant off-Reservation impacts identified in the TEIR may differ from those described in this Notice.

A copy of this Notice is available online at the project website: www.jamulteir.com. A copy of the draft TEIR will be posted on that website when the draft TEIR is completed. The draft TEIR will include the analysis of potentially significant direct and indirect off-Reservation environmental impacts attributable to the Proposed Project and mitigation measures to address such impacts as required by the Compact. The draft TEIR will also describe a range of reasonable alternatives to the Proposed Project that could avoid or minimize potentially significant adverse impacts and evaluate the comparative merits of the alternatives.

The draft TEIR, when completed, will be filed with the State Clearinghouse, the County, the State Gaming Agency, and the California Department of Justice Office of the Attorney General. After that filing, there will be a 45-day period during which interested persons and agencies may submit comments regarding the draft TEIR. The draft TEIR will include provisions describing how any such comments are to be submitted to the Tribe. Any comments regarding the draft TEIR received by the Tribe during the 45-day comment period will be considered and evaluated in connection with the preparation of a final draft of the TEIR. The final TEIR will be posted on the project website.

INFORMATION REGARDING THE PROPOSED PROJECT

PROJECT TITLE

Jamul Casino Hotel and Event Center Project

LOCATION

The Reservation consists of approximately six acres of federal trust land located in unincorporated San Diego County, approximately one mile south of the community of Jamul (**Figure 1**). The Jamul Casino is located on the Reservation at 14145 Campo Road, Jamul, CA 91935. The Reservation is located within portions of Section 10 and unsectioned areas of Township 17 S, Range 1 East, San Bernardino Baseline and Meridian, Dulzura, CA and Jamul Mountains, CA, U.S. Geological Survey 7.5-minute Quadrangles.

State Route 94 (SR 94) provides regional access to the Reservation from downtown San Diego, which is located approximately 20 miles to the west of the Reservation. Local access to the Reservation is provided directly from SR 94 via Daisy Drive and an access road limited to authorized vehicles.

PROJECT DESCRIPTION

The Jamul Casino opened in October 2016 and was the subject of an exhaustive environmental review including the 2006 Tribal Environmental Impact Statement/Report (Tribal EIS/R) and the 2013 Tribal Environmental Evaluation and subsequent addendums. The Jamul Casino currently includes 1,656 slot machines, 378 table game seats, food court, seven dining locations, rooftop event venue, and associated parking. Other existing uses on the Reservation include wastewater treatment facilities, tribal administration building, and a tribal community center. Immediately adjacent to the Reservation, on land owned by the Tribe, is a chapel and Tribal cemetery.

The Proposed Project consists of remodeling the existing Jamul Casino to include a new event center, 226-room hotel, and associated parking and infrastructure. The proposed remodeling would eliminate the second floor (which is a veranda level between the main casino floor and the third floor, and the location of a restaurant) and the fourth floor (currently the rooftop lounge) of the existing Casino building and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation. The existing restaurant located on the second floor of the casino building would be relocated to the third floor with no changes in occupant capacity. Existing office space on the eastern portion of the third floor would be relocated to an expanded area of the western portion of the third floor (**Figure 2**). The new event venue would result in a net increase of approximately 35,000 sf of enclosed, covered outdoor, and uncovered outdoor areas. No expansion of the gaming floor or increase in the number of slot machines or table games is proposed.

The new hotel and associated parking structure would be located west of the existing casino building with pedestrian access to the casino building potentially provided through a new bridge over Willow Creek, which bisects the Reservation immediately west of the existing casino building (**Figure 2**). The proposed 226-room hotel would consist of 16 stories including 3 levels of back-of-house, a hotel lobby level with restaurant, a spa level with outdoor deck, 10 levels of guest rooms, and a rooftop pool deck. The height of the hotel tower would be at an elevation of 1,112 feet above mean sea level (amsl), which is approximately 209 feet above ground level and 100 feet taller than the existing casino building. The new four-story parking structure would be located south of the new hotel building and would connect to the

hotel lobby. The existing tribal community center and administration building would be removed to accommodate the footprint of the new hotel and parking structure. There are several options under consideration for relocation of the Tribal administration and community facilities, including utilizing space within the expanded third floor administrative areas of the casino, purchase of an off-site property with an existing building, or leasing existing office space within the region.

Construction activities associated with the Proposed Project are proposed to commence in 2023 and may take place over 18-24 months. Construction employee parking and staging areas for equipment and materials will occur within the Reservation boundaries, and potentially on nearby previously disturbed off-reservation properties.

PROBABLE OFF-RESERVATION ENVIRONMENTAL EFFECTS

In accordance with the Off-Reservation Environmental Impact Analysis Checklist included in Appendix B of the Compact, the following issue areas will be addressed in the TEIR: aesthetics, agricultural and forest resources, air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, water resources, land use, mineral resources, noise, population and housing, public services, recreation, transportation and traffic, utilities and service systems, as well as cumulative, indirect, and growth-inducing effects. The range of issues to be addressed in the TEIR may be expanded or reduced based on the comments received.

This section of this notice briefly discusses, based on current knowledge without the benefit of the environmental analysis that will be performed as part of the TEIR process, potential off-Reservation impacts attributable to the Proposed Project may occur.

- Aesthetics – The Proposed Project would change the visual character of the project site by introducing a new hotel tower and parking structure to the western portion of the site and remodeling the upper stories of the existing casino building. Additionally, the Proposed Project will introduce additional sources of light and glare to the project area.
- Air Quality/Greenhouse Gases – The Proposed Project would generate short-term emissions, including dust, during the construction phase and long-term emissions from increased vehicle traffic, both of which could contribute to existing or projected air quality issues. Additionally, the Proposed Project would result in short-term emissions of greenhouse gas (GHG) associated with construction and long-term GHG emissions primarily associated with increased vehicle traffic and energy usage, which could contribute to cumulative effects associated with climate change.
- Biological Resources – Construction activities for the Proposed Project would be on Reservation land that has already been disturbed with prior grading and development. Accordingly, impacts to off-Reservation terrestrial and aquatic biological resources would likely be minimal.
- Cultural Resources – Construction activities for the Proposed Project would be on Reservation land that has already been disturbed with prior grading and development. Accordingly, impacts to off-Reservation cultural resources would likely be minimal.
- Geology and Soils – The Proposed Project would be constructed on the project site and will be built to applicable building code standards, including all applicable earthquake safety standards. It is therefore not anticipated that any off-Reservation people or structures would be subjected to adverse effects from earthquakes, ground shaking, seismic ground failure, landslides, or erosion as a result of the Proposed Project.
- Hazardous Materials – Certain hazardous materials would be used in the construction and in the operation of the Proposed Project. The TEIR will assess off-Reservation impacts associated with

the hazards and hazardous materials attributable the Proposed Project and identify mitigation measures to address any potentially significant impacts.

- Water Resources – The Proposed Project would generate an increase in demand for water supply and wastewater treatment and disposal. Water supply for the reservation is currently provided by the Otay Water District, and wastewater treatment is provided via an on-site wastewater treatment plant (WWTP). Treated wastewater that cannot be reused on-site is trucked to the City of San Diego Pump Station 1, for further treatment and disposal at a regional WWTP. Construction of the Proposed Project could increase the potential for erosion and direct or indirect discharge of sediment and other materials into Willow Creek, which bisects the project site, and off-Reservation drainages near the project site. The TEIR will include an analysis of the potential for impacts to off-site water resources from additional water demands, wastewater generation, and stormwater run-off.
- Land Use – The Proposed Project would be constructed on the Reservation, and therefore no off-Reservation land use plan, policy, habitat conservation plan, or natural community conservation plan would apply to the Proposed Project. The TEIR will assess the Proposed Project’s off-Reservation impact on surrounding land uses and any applicable off-Reservation land use, habitat conservation and natural community preservation plans, and will identify mitigation measures to address any potentially significant impacts.
- Noise – Construction and operation of the Proposed Project could increase noise levels and vibration in off-Reservation areas near the Proposed Project.
- Population and Housing – The Proposed Project would not displace any existing off-Reservation housing. The Proposed Project would provide new employment opportunities that could have an impact on off-Reservation housing availability.
- Public Services – It is anticipated that police and fire protection services would be provided to the Proposed Project by local jurisdictions. The Proposed Project would employ additional employees and attract additional patrons that could use public services and facilities.
- Transportation and Traffic – The Proposed Project would generate additional vehicular use of certain public roads, contributing to increased traffic volumes and possible deterioration of levels of service. The TEIR will identify mitigation measures to address any potentially significant impacts.
- Utilities and Service Systems – Water supply for the reservation is currently provided by the Otay Water District, and wastewater treatment is provided via an on-site wastewater treatment plant (WWTP). Treated wastewater that cannot be reused on-site is trucked to the City of San Diego Pump Station 1, for further treatment and disposal at a regional WWTP. The TEIR will address the potential for off-Reservation impacts to public utilities and service systems from the increase in water supply demands, wastewater generation and electricity usage resulting from the Proposed Project.
- Indirect Impacts – Under a separate Project, the Tribe may establish a larger security office in a mobile building located on a 4-acre parcel owned in fee by the Tribe directly north of the existing casino. Although this is a separate project not directly related to the expansion project, the indirect effects of relocating the security office to the 4-acre parcel will be addressed in the TEIR. Additionally, the indirect effects of any applicable traffic mitigation, and potentially relocating the tribal administration office to an off-reservation location will also be addressed in the TEIR.
- Cumulative Impacts – The TEIR will analyze whether the Proposed Project will cause any “cumulatively considerable” off-Reservation impacts for each issue area listed above. Under the Compact, “cumulatively considerable” off-Reservation environmental impacts of the Proposed

Project will be those that are considerable when viewed in connection with past, current, or probable future projects.

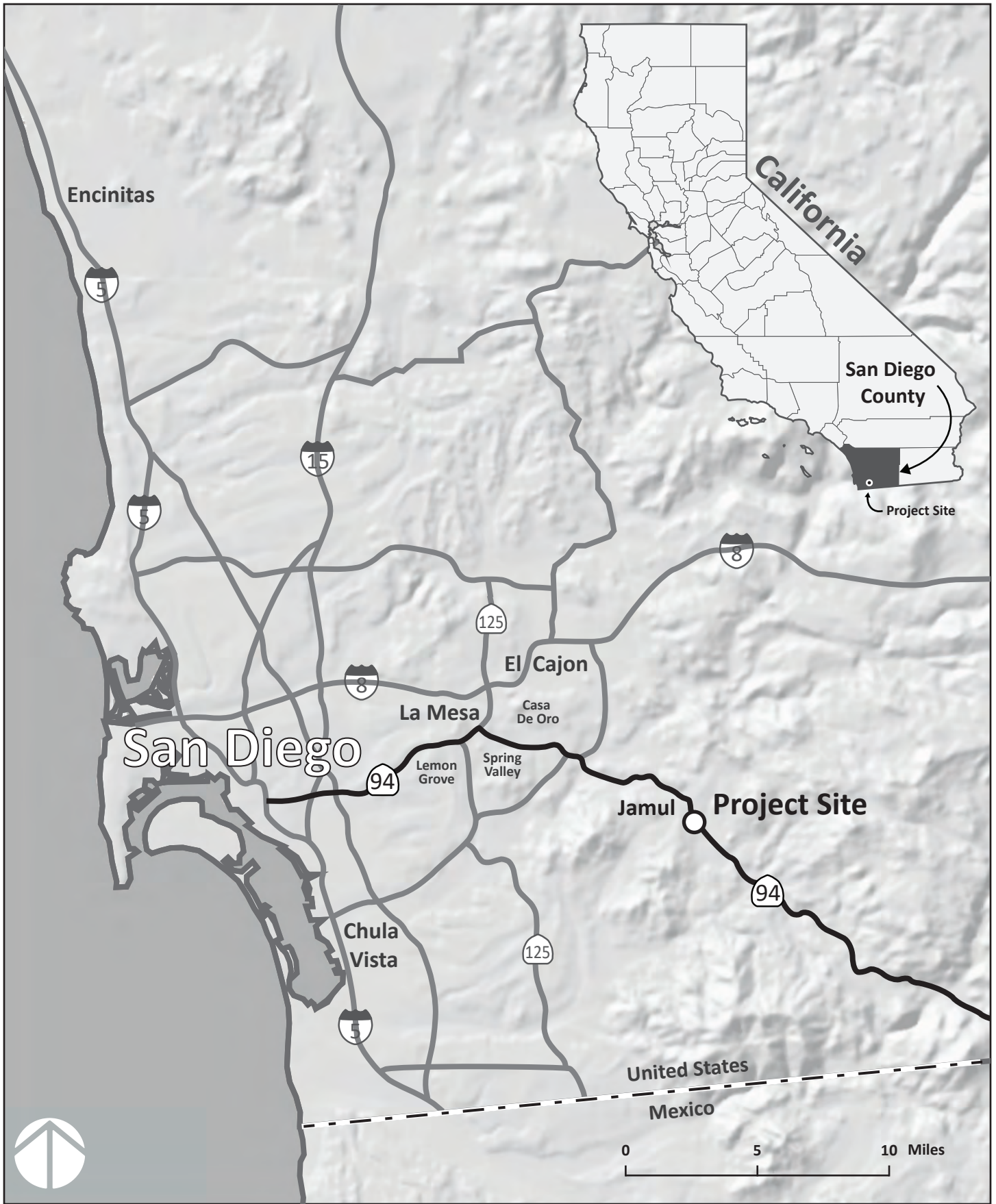


FIGURE 1
REGIONAL LOCATION



Source: JCJ Architecture

FIGURE 2
SITE PLAN

Comment Letters Received in Response to May 2022 Notice of Preparation of a Tribal EIR for the Jamul
Casino Hotel and Event Center Project

Comment #	Date	Commenter
1	May 20, 2022	Native American Heritage Commission
2	June 1, 2022	San Diegans for Sustainable, Economic and Equitable Development (SEED)
3	June 15, 2022	Caltrans
4	June 13, 2022	SEED San Diegans
5	June 17, 2022	County of San Diego
6	June 17, 2022	California Highway Patrol El Cajon Area
7	June 20, 2022	SEED San Diegans
8	June 20, 2022	Southwest Regional Council of Carpenters

NATIVE AMERICAN HERITAGE COMMISSION

May 20, 2022

Chairwoman Erica M. Pinto
Jamul Indian Village of California
P.O. Box 612
Jamul, CA 91935

Re: 2022050410, Jamul Casino Hotel and Event Center Project, San Diego County

Dear Chairwoman Pinto:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15064.5 (b) (CEQA Guidelines §15064.5 (b))). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1))). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

[AB 52](#)



CHAIRPERSON
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NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
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nahc@nahc.ca.gov
NAHC.ca.gov



AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project:

Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- a. A brief description of the project.
- b. The lead agency contact information.
- c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subs. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1 (b)).

- a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- a. Alternatives to the project.
- b. Recommended mitigation measures.
- c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

- a. Type of environmental review necessary.
- b. Significance of the tribal cultural resources.
- c. Significance of the project's impacts on tribal cultural resources.
- d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
- b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

- 7. Conclusion of Consultation:** Consultation with a tribe shall be considered concluded when either of the following occurs:
- a.** The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
 - b.** A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).
- 8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document:** Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).
- 9. Required Consideration of Feasible Mitigation:** If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).
- 10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:**
- a.** Avoidance and preservation of the resources in place, including, but not limited to:
 - i.** Planning and construction to avoid the resources and protect the cultural and natural context.
 - ii.** Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
 - b.** Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - i.** Protecting the cultural character and integrity of the resource.
 - ii.** Protecting the traditional use of the resource.
 - iii.** Protecting the confidentiality of the resource.
 - c.** Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
 - d.** Protecting the resource. (Pub. Resource Code §21084.3 (b)).
 - e.** Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
 - f.** Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).
- 11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource:** An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
- a.** The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.
 - b.** The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
 - c.** The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. **Tribal Consultation**: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. **No Statutory Time Limit on SB 18 Tribal Consultation**. There is no statutory time limit on SB 18 tribal consultation.
3. **Confidentiality**: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. **Conclusion of SB 18 Tribal Consultation**: Consultation should be concluded at the point in which:
 - a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: <http://nahc.ca.gov/resources/forms/>.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (https://ohp.parks.ca.gov/?page_id=30331) for an archaeological records search. The records search will determine:
 - a. If part or all of the APE has been previously surveyed for cultural resources.
 - b. If any known cultural resources have already been recorded on or adjacent to the APE.
 - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
 - d. If a survey is required to determine whether previously unrecorded cultural resources are present.
2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
 - b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
 - a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
 - b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
 - a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, § 15064.5(f) (CEQA Guidelines § 15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
 - b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
 - c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code § 7050.5, Public Resources Code § 5097.98, and Cal. Code Regs., tit. 14, § 15064.5, subdivisions (d) and (e) (CEQA Guidelines § 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address:
Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

cc: State Clearinghouse

From: **Zach Strasters** <pastorzach@sdseed.net>
Date: Wed, Jun 1, 2022 at 10:47 AM
Subject: RE: Jamul Casino Hotel and Event Center
To: epinto@jamulindianvillage.com <epinto@jamulindianvillage.com>

June 1st, 2022

Erica M. Pinto, Chairwoman
Jamul Indian Village Tribal Council
P.O. Box 612
Jamul, CA 91935

Dear Ms. Pinto,

On behalf of SEED San Diegans, it's my pleasure to contact you about your proposed project, the Jamul Casino Hotel and Event Center, located at [14145 Campo Road](#) in the city of Jamul. We understand that the project will be the construction of a 16-story tower with 226 hotel rooms, restaurant space, as well as the remodeling of the existing Jamul Casino to include a new 35,000 square foot event center.

SEED SD, San Diegans for Economic, Equitable Development, was formed to ensure that major environmental and public service impacts and maximizing community economic and employment benefits. Our coalition includes local residents, nonprofit organizations and labor organizations and their members and families that live and work in the City of San Diego and the region.

We would appreciate an opportunity to meet with you to discuss the ramifications of your project for our community. We will make ourselves available at your earliest convenience.

Please contact me at (619) 365.4218 or email@ sdseed@sdseed.net.

We look forward to meeting with you.

Sincerely,

Jeff Modrzejewski

Interim Director of Outreach

CC: Mary Cheeks, President & GM, Jamul Casino

California Department of Transportation

DISTRICT 11
4050 TAYLOR STREET, MS-240
SAN DIEGO, CA 92110
(619) 709-5152 | FAX (619) 688-4299 TTY 711
www.dot.ca.gov



June 15, 2022

11-SD-94
PM 20.967

Jamul Casino Hotel and Event Center Project
NOP/SCH#2022050410

Ms. Erica M. Pinto
Chairwoman
Jamul Indian Village of California
PO Box 612
Jamul, CA 91935

Governor's Office of Planning & Research

Jun 16 2022

STATE CLEARINGHOUSE

Dear Ms. Pino:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the Notice of Preparation for the Jamul Casino Hotel and Event Center Project located near State Route 94 (SR-94). The mission of Caltrans is to provide a safe and reliable transportation network that serves all people and respects the environment. The Local Development Review (LDR) Program reviews land use projects and plans to ensure consistency with our mission and state planning priorities.

Safety is one of Caltrans' strategic goals. Caltrans strives to make the year 2050 the first year without a single death or serious injury on California's roads. We are striving for more equitable outcomes for the transportation network's diverse users. To achieve these ambitious goals, we will pursue meaningful collaboration with our partners. We encourage the implementation of new technologies, innovations, and best practices that will enhance the safety on the transportation network. These pursuits are both ambitious and urgent, and their accomplishment involves a focused departure from the status quo as we continue to institutionalize safety in all our work.

Caltrans is committed to prioritizing projects that are equitable and provide meaningful benefits to historically underserved communities, to ultimately improve transportation accessibility and quality of life for people in the communities we serve.

We look forward to working with the Jamul Indian Village of California in areas where the Jamul Indian Village of California and Caltrans have joint jurisdiction to improve

the transportation network and connections between various modes of travel, with the goal of improving the experience of those who use the transportation system.

Caltrans has the following comments:

Traffic Impact Study

- A Vehicle Miles of Travel (VMT) based Traffic Impact Study (TIS) should be provided for this project. Please use the Governor's Office of Planning and Research Guidance to identify VMT related impacts.¹
- The TIS may also need to identify the proposed project's near-term and long-term safety or operational issues, on or adjacent any existing or proposed State facilities.
- Please confirm that the following mitigation projects have been completed by the Jamul Indian Village for the building of the Casino and its approved EIR:
 - Lyons Valley Road and SR-94 Signalization and improvements.
 - SR-94 and Maxfield Road roadway improvements.
 - SR-94 and Steele Canyon Road Intersection widening Improvements.
 - SR-94/Campo Rd and Jamacha Road dual right-turn and other improvements.
 - SR-94/Campo Rd and Jamacha Boulevard dual right-turn improvements.
 - The Melody Road and SR-94 intersection improvement project.

Traffic Control Plan

A Traffic Control Plan is to be submitted to Caltrans District 11, including the interchanges at SR-94/Daisy Drive, at least 30 days prior to the start of any construction. Traffic shall not be unreasonably delayed. The plan shall also outline suggested detours to use during closures, including routes and signage.

Potential impacts to the highway facilities (SR-94) and traveling public from the detour, demolition and other construction activities should be discussed and addressed before work begins.

Hydrology and Drainage Studies

- Please provide hydraulics studies, drainage and grading plans to Caltrans for review.
- Provide a pre and post-development hydraulics and hydrology study. Show drainage configurations and patterns.

¹ California Governor's Office of Planning and Research (OPR) 2018. "Technical Advisory on Evaluating Transportation Impacts in CEQA." http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf

- Provide drainage plans and details. Include detention basin details of inlets/outlet.
- Provide a contour grading plan with legible callouts and minimal building data. Show drainage patterns.
- On all plans, show Caltrans' Right of Way (R/W).
- Early coordination with Caltrans is recommended.
- Caltrans generally does not allow development projects to impact hydraulics within the State's Right-of-Way. Any modification to the existing Caltrans drainage and/or increase in runoff to State facilities will not be allowed.

Complete Streets and Mobility Network

Caltrans views all transportation improvements as opportunities to improve safety, access and mobility for all travelers in California and recognizes bicycle, pedestrian and transit modes as integral elements of the transportation network. Caltrans supports improved transit accommodation through the provision of Park and Ride facilities, improved bicycle and pedestrian access and safety improvements, signal prioritization for transit, bus on shoulders, ramp improvements, or other enhancements that promotes a complete and integrated transportation network. Early coordination with Caltrans, in locations that may affect both Caltrans and the Jamul Indian Village of California is encouraged.

To reduce greenhouse gas emissions and achieve California's Climate Change target, Caltrans is implementing Complete Streets and Climate Change policies into State Highway Operations and Protection Program (SHOPP) projects to meet multi-modal mobility needs.

Bicycle, pedestrian, and public transit access during construction is important. Mitigation to maintain bicycle, pedestrian, and public transit access during construction is in accordance with Caltrans' goals and policies.

Land Use and Smart Growth

Caltrans recognizes there is a strong link between transportation and land use. Development can have a significant impact on traffic and congestion on State transportation facilities. In particular, the pattern of land use can affect both local vehicle miles traveled and the number of trips. Caltrans supports collaboration with local agencies to work towards a safe, functional, interconnected, multi-modal transportation network integrated through applicable "smart growth" type land use planning and policies.

The Jamul Indian Village of California should continue to coordinate with Caltrans to implement necessary improvements at intersections and interchanges where the agencies have joint jurisdiction.

Noise

The applicant must be informed that in accordance with 23 Code of Federal Regulations (CFR) 772, the Department of Transportation (Caltrans) is not responsible for existing or future traffic noise impacts associated with the existing configuration of SR-94.

Glare

The proximity of the project site to SR-94 raises some concerns regarding potential glare that could pose a potential risk to motorists traveling on SR-94. The project's potential glare characteristics should be considered. Caltrans would want to ensure that all lighting, including reflected sunlight and reflected night lighting, within this project should be placed and/or shielded so as not to be hazardous to vehicles traveling on SR-94.

Environmental

Caltrans welcomes the opportunity to be a Responsible Agency under the California Environmental Quality Act (CEQA), as we have some discretionary authority of a portion of the project that is in Caltrans' R/W through the form of an encroachment permit process. We look forward to the coordination of our efforts to ensure that Caltrans can adopt the alternative and/or mitigation measure for our R/W. We would appreciate meeting with you to discuss the elements of the EIR that Caltrans will use for our subsequent environmental compliance.

An encroachment permit will be required for any work within the Caltrans' R/W prior to construction. As part of the encroachment permit process, the applicant must provide approved final environmental documents for this project, corresponding technical studies, and necessary regulatory and resource agency permits. Specifically, CEQA determination or exemption. The supporting documents must address all environmental impacts within the Caltrans' R/W and address any impacts from avoidance and/or mitigation measures.

We recommend that this project specifically identifies and assesses potential impacts caused by the project or impacts from mitigation efforts that occur within Caltrans' R/W that includes impacts to the natural environment, infrastructure including but not limited to highways, roadways, structures, intelligent transportation systems elements,

on-ramps and off-ramps, and appurtenant features including but not limited to lighting, signage, drainage, guardrail, slopes and landscaping. Caltrans is interested in any additional mitigation measures identified for the project's draft Environmental Document.

Broadband

Caltrans recognizes that teleworking and remote learning lessen the impacts of traffic on our roadways and surrounding communities. This reduces the amount of VMT and decreases the amount of greenhouse gas (GHG) emissions and other pollutants. The availability of affordable and reliable, high-speed broadband is a key component in supporting travel demand management and reaching the state's transportation and climate action goals.

Right-of-Way

- Per Business and Profession Code 8771, perpetuation of survey monuments by a licensed land surveyor is required, if they are being destroyed by any construction.
- Any work performed within Caltrans' R/W will require discretionary review and approval by Caltrans and an encroachment permit will be required for any work within the Caltrans' R/W prior to construction.

Additional information regarding encroachment permits may be obtained by contacting the Caltrans Permits Office at (619) 688-6158 or emailing D11.Permits@dot.ca.gov or by visiting the website at <https://dot.ca.gov/programs/traffic-operations/ep>. Early coordination with Caltrans is strongly advised for all encroachment permits.

If you have any questions or concerns, please contact Kimberly Dodson, LDR Coordinator, at (619) 985-1587 or by e-mail sent to Kimberly.Dodson@dot.ca.gov.

Sincerely,

Maurice A. Eaton

MAURICE EATON
Branch Chief
Local Development Review

RECEIVED

JUN 15 2022

Initial: MO

SEEDSD

June 13, 2022

Via Email and U.S. Mail

Jamul Indian Village
Attn: Erica M. Pinto
P.O. Box 612
Jamul, CA 91935
admin@jamuTEIR.com

**RE: Public Records Act Request and Request for Mailed Notice of Public Hearings
and Actions – Jamul Casino Hotel and Event Center, 14145 Campo Rd
Jamul, CA 91935**

Dear Ms. Pinto,

SEED SD is writing to request a copy of any and all records related to the project, the Jamul Casino Hotel and Event Center, located 14145 Campo Road in Jamul. The project will be the construction of a 16-story tower with 226 hotel rooms, restaurant space, as well as the remodeling of the existing Jamul Casino to include a new 35,000 square foot event center. We are also writing to request copies of any and all hearings and/or actions related to the Project.

Our request for mailed notice of all hearings includes hearings, study sessions and community meetings related to the Project, certification of the MND (or recirculated DEIR), and approval of any Project entitlements. This request is made pursuant to Public Resources Code Sections 21092.2, 21080.4, 21083.9, 21092, 21108 and 21152 and Government Code Section 65092, which require local agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency's governing body. Our request includes notice to any City actions, hearings or other proceedings regarding the Project, Project approvals and any actions taken, or additional documents released pursuant to the California Environmental Quality Act.

Our request for all records related to the Project is made pursuant to the California Public Records Act. (Government Code § 6250 et seq.) This request is also made pursuant to Article I, section 3(b) of the California Constitution, which provides a constitutional right of access to information concerning the conduct of government. Article I, section 3(b) provides that any statutory right to information shall be broadly construed to provide the greatest access to government information and further requires that any statute that limits the right of access to information shall be narrowly construed.

We will pay for any direct costs of duplication associated with filling this request up to \$200. However, please contact me at (619) 932-6685 with a cost estimate before copying/scanning the materials.

Pursuant to Government Code Section 6253.9, if the requested documents are in electronic format and are 10 MB or less (or can be easily broken into sections of 10 MB or less), please email them to me as attachments.

My contact information is:

U.S. Mail

Jeff Modrzejewski
SEED SD
5155 Mercury Point
San Diego, CA 92111

Email

sdseed@sdseed.net

Please call me if you have any questions. Thank you for your assistance with this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Modrzejewski", with a long horizontal flourish extending to the right.

Jeff Modrzejewski
Executive Director



County of San Diego

PLANNING & DEVELOPMENT SERVICES
5510 OVERLAND AVENUE, SUITE 310, SAN DIEGO, CA 92123
(858) 505-6445 General • (858) 694-2705 Codes
(858) 565-5920 Building Services
www.SDCPDS.org

DAHVIA LYNCH
DIRECTOR

June 17, 2022

Honorable Erica Pinto
Chairwoman, Jamul Indian Village of California
P.O. Box 612
Jamul, CA 91935

Sent via email to: Admin@JamulTEIR.com

REQUEST FOR COMMENTS ON THE JAMUL CASINO HOTEL AND EVENT CENTER PROJECT FOR THE JAMUL INDIAN VILLAGE OF CALIFORNIA

Dear Chairwoman Pinto,

The County of San Diego (County) staff reviewed the Jamul Indian Village of California's (Jamul Indian Village) Notice of Preparation (NOP) of an Off-Reservation Tribal Environmental Impact Report (TEIR) for the Jamul Casino Hotel and Event Center Project (Project), dated May 19, 2022.

County staff appreciates the opportunity to participate in the review process for this NOP and we would like to thank you and your team for taking time to meet with us on June 16 to discuss our initial comments. This letter responds to the NOP's request for comments regarding Off-Reservation environmental issues and reasonable mitigation measures that the Jamul Indian Village could explore in the TEIR.

DEPARTMENT OF PUBLIC WORKS – WATERSHED PROTECTION

This project site drains into Willow Creek and other nearby Off-Reservation drainage systems and then flows southward for approximately 1.8 miles before entering Jamul Creek. Jamul Creek is considered an impaired waterbody due to the presence of pollutants at levels exceeding the State water quality standards. Development activities, even those located within previously disturbed and paved areas, have the potential to increase pollutants and bacteria, further impairing surface water resources. For this reason, the County respectfully requests that Off-Reservation water quality and water quantity impacts be analyzed as part of the TEIR.

The County has a wide array of information on stormwater quantity and quality mitigation measures such as post-construction treatment control Best Management Practices (BMPs), Low Impact Development, Source Control BMPs, hydromodification management practices, and construction BMPs. The County, in partnership with the cities of Chula Vista, Coronado, Imperial Beach, La Mesa, Lemon Grove, National City, and San Diego, the San Diego County Regional

Airport Authority, and the San Diego Unified Port District, have also developed a Water Quality Improvement Plan (WQIP) for the watershed. The WQIP consists of a framework of strategies to address impairments in the watershed. The County would welcome the opportunity to provide this information to the Jamul Indian Village in furtherance of our shared interest in protecting water quality and aquatic habitats.

DEPARTMENT OF PUBLIC WORKS – TRAFFIC

The County appreciates the statements within the NOP identifying that the Project may increase traffic volumes on public roads and possibly reduce their levels of service. We also appreciate the Jamul Indian Village's proactiveness and willingness to identify mitigation measures in the TEIR to address any potentially significant impacts. Jamul Casino's entrance is along State Route 94, which is managed by CALTRANS, but the Project may impact traffic on County-maintained roads. Consequently, the County respectfully requests that the TEIR include a traffic impact report, which will aid the Jamul Indian Village and County in identifying areas of potential concern. As we shared during our meeting on June 16, the County would be happy to meet with Jamul Indian Village and your Project consultants, Acorn Environmental, to discuss the potential scope of a traffic impact report. Upon completion of a traffic impact report, we would also welcome an opportunity to review it alongside CALTRANS to identify the most effective projects to mitigate traffic issues.

SAN DIEGO COUNTY FIRE PROTECTION DISTRICT

Across State Route 94 from the Jamul Casino's entrance is San Diego County Fire Protection District Station 36, which provides emergency response service to the Jamul Casino and surrounding community. As mentioned above, the County greatly appreciates the Jamul Indian Village's proactiveness and willingness to consider traffic impacts and mitigation measures as part of the TEIR. We respectfully request the future TEIR include an analysis of impacts any increased traffic will have on Station 36's access to State Route 94. Upon completion of an analysis, the County would welcome an opportunity to discuss potential mitigation measures with the Jamul Indian Village and CALTRANS to address impacts to ingress and egress from Station 36.

The County appreciates the opportunity to comment on the Project TEIR NOP. We look forward to receiving future documents related to the Project and providing any additional assistance that you request. If you have any questions regarding these comments, please contact me at 619-613-5197 or Scott.Christman@sdcounty.ca.gov.

Sincerely,



Scott Christman
Group Program Manager, Long Range Planning Division
Planning & Development Services

cc: Bibiana Alvarez, Principal, Acorn Environmental
Ryan Sawyer, Project Director, Acorn Environmental
Sarah Aghassi, Deputy Chief Administrative Officer, LUEG
Tony Mecham, Fire Chief, San Diego County Fire
Dave Nissen, Deputy Chief, San Diego County Fire
David Sibbet, Fire Services Coordinator, San Diego County Fire
Derek Gade, Assistant Director, DPW
Richard Whipple, Deputy Director, DPW
Murali Pasumarthi, Traffic Engineering Manager, DPW
Crystal Benham, LUEG Program Manager, DPW

DEPARTMENT OF CALIFORNIA HIGHWAY PATROL

1722 East Main Street
El Cajon, CA 92021
(619) 401-2000
(800) 735-2929 (TT/TDD)
(800) 735-2922 (Voice)



June 17, 2022

File No.: 680.15811.14517.Jamul Casino Hotel Project

Jamul Indian Village of California
P.O. Box 612
Jamul, CA 91935

Attention: Chairwoman Erica M. Pinto

Dear Ms. Pinto:

The California Highway Patrol (CHP) El Cajon Area recently received a Notice of Preparation of a Tribal Environmental Impact Report for the Jamul Casino Hotel and Event Center Project, State Clearing House number 2022050410. A review of the Report has raised several concerns. The addition of 226 hotel rooms and event space will increase traffic in two phases. First, a short-term consequence will be the construction phase, which will bring an influx of vehicular traffic from construction workers, equipment, and supplies. Second, a long-term consequence will be additional vehicular traffic from additional casino workers, vendors, and patrons.

The Jamul Casino Hotel and Event Center Project will likely result in an increase in several aspects of functions within the CHP El Cajon Area, specifically related to State Route 94, and the unincorporated roadways in and around the Jamul Community. The project will likely increase the number of calls into the CHP Border Communication Center, increase the number of calls for service within the CHP El Cajon jurisdiction, increase the amount of traffic enforcement by the CHP El Cajon within this geographical area of San Diego County necessary to protect life and property. Additionally, it will likely increase traffic within the geographical area of responsibility of the CHP El Cajon Area which would increase response times of CHP officers responding to calls for service in other geographical areas of San Diego County and increase the amount of emergency services the CHP El Cajon Area provides within this area of San Diego County.

Thank you for allowing me the opportunity to comment on the Notice of Preparation of a Tribal Environmental Impact Report for the Jamul Casino Hotel and Event Center Project. Should you have any questions, please contact the El Cajon Area, Lieutenant Clyde Larkin, at (619) 401-2000.

Sincerely,

A handwritten signature in blue ink, appearing to read "C. FOUYER".

C. FOUYER, Captain
Commander
El Cajon Area

cc: Special Projects Section
Border Division





06/20/2022

VIA EMAIL ONLY

Jamul Indian Village of California
Chairwoman Erica M. Pinto
P.O. Box 612
Jamul, CA 91935
Admin@JamulTEIR.com

RE: NOP Comments for Jamul Casino Hotel and Event Center Project

Dear Ms. Pinto,

On behalf of San Diegans for Sustainable, Economic and Equitable Development ("SD SEED") thank you for the opportunity to provide comments on the Notice of Preparation ("NOP") for environmental review of the Jamul Casino Hotel and Event Center Project (the "Project").

The proposed Project consists of remodeling the existing Jamul Casino to include a new event center, 16-story 226 room hotel, and associated parking and infrastructure. The proposed remodeling would eliminate the second floor and the fourth floor of the existing Casino building and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation.

The NOP identifies the Project's potentially significant off-reservation impacts under CEQA to include all environmental considerations except Biological Resources, Cultural Resources, and Geology and Soils. SD SEED respectfully requests, under CEQA complete analysis of these impacts, imposition of all feasible mitigation and study of a reasonable range of alternatives to the Project.

II. General Comments

i) Project Description & Baseline: An erroneous project description and baseline can lead to masking potentially significant impacts. Therefore, in order to reflect a good faith effort at full disclosure, the TEIR should provide a detailed description of the "real conditions on the ground" and use these physical conditions as the baseline to assess the significance of the Project's impacts. The California Supreme Court, in *Communities for a Better Environment v. South Coast Air Quality Management District*, recognized that "the baseline 'normally' consists of 'the physical environmental conditions in the vicinity of the project, as they exist at the time ...

environmental analysis is commenced.... *CBE v. SCAQMD*, supra, 48 Ca.4th 310, 327–328, citing Guidelines, § 15125, subd. (a).

ii) Air Quality & Public Health: The TEIR should include a Health Risk Assessment to address the potential impacts of air quality on public health. Estimates of the significance of air quality impacts must be consistent with current epidemiological studies regarding the effects of pollution and various kinds of environmental stress on public health.

iii) Mitigation measures: Mitigation measures must be effective and enforceable. Every effort must be made to incorporate modern technology in the mitigation measures and MMRP. For example, a requirement that all off-road equipment and trucks using the site during construction and operations be zero emission, near-zero emissions or alternative-fueled vehicle would both reduce and/or eliminate air pollution impacts and CO2 emissions.

iv) Full Disclosure: Provide all sources and referenced materials when the TEIR is made available.

II. Conclusion

Thank you for the opportunity to submit NOP comments. Again, SD SEED respectfully requests under CEQA full analysis of the environmental impacts, feasible mitigation, and reasonable alternatives to the Project.

We look forward to reviewing and commenting on subsequent environmental review documents when these documents are released for public review.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Modrzejewski", with a long horizontal flourish extending to the right.

Jeff Modrzejewski
Director of Outreach

P: (626) 381-9248
F: (626) 389-5414
E: info@mitschtsailaw.com



Mitchell M. Tsai
Attorney At Law

155 South El Molino Avenue
Suite 104
Pasadena, California 91101

VIA E-MAIL

June 20, 2022

Jamul Indian Village of California
Attn: Erica M. Pinto
P.O. Box 612
Jamul, CA 91935
E: admin@JamulTEIR.com

RE: Notice of Preparation of a Tribal Environmental Impact Report for the Jamul Casino Hotel and Event Center Project (SCH No. 2022050410)

Dear Ms. Pinto and the Jamul Indian Village of California (“**Tribe**”),

On behalf of the Southwest Regional Council of Carpenters (“**Southwest Carpenter**” or “**SWRCC**”), my Office is submitting these comments regarding the Notice of Preparation (“**NOP**”) of a Tribal Environmental Impact Report (“**TEIR**”) for the Jamul Casino Hotel and Event Project (“**Project**”), SCH No. 2022050410.

SWRCC is a labor union representing 50,000 union carpenters in six states, including California, and has a strong interest in well ordered land use planning and addressing the environmental impacts of development projects. Individual members of the Southwest Carpenters live, work and recreate in the County of San Diego and surrounding communities and would be directly affected by the Project’s environmental impacts.

SWRCC expressly reserves the right to supplement these comments at or prior to hearings on the Project, and at any later hearings and proceedings related to this Project. Cal. Gov. Code § 65009(b); Cal. Pub. Res. Code § 21177(a); *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal. App. 4th 1184, 1199-1203; see *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal. App. 4th 1109, 1121.

SWRCC incorporates by reference all comments raising issues regarding the NOP of a TEIR submitted prior to approval of the TEIR for the Project. *Citizens for Clean Energy v. City of Woodland* (2014) 225 Cal. App. 4th 173, 191 (finding that any party who has

objected to the Project’s environmental documentation may assert any issue timely raised by other parties).

SWRCC also requests that the Tribe provide notice for any and all notices referring or related to the Project issued under the compact between the Tribe and the State of California (“**Compact**”). California Public Resources Code Sections 21092.2, and 21167(f) and Government Code Section 65092 require agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency’s governing body.

The Tribe should require the use of a local skilled and trained workforce to benefit the community’s economic development and environment. The Tribe should require the use of workers who have graduated from a Joint Labor Management apprenticeship training program approved by the State of California, or have at least as many hours of on-the-job experience in the applicable craft which would be required to graduate from such a state approved apprenticeship training program or who are registered apprentices in an apprenticeship training program approved by the State of California.

Community benefits such as local hire and skilled and trained workforce requirements can also be helpful to reduce environmental impacts and improve the positive economic impact of the Project. Local hire provisions requiring that a certain percentage of workers reside within 10 miles or less of the Project Site can reduce the length of vendor trips, reduce greenhouse gas emissions and providing localized economic benefits. Local hire provisions requiring that a certain percentage of workers reside within 10 miles or less of the Project Site can reduce the length of vendor trips, reduce greenhouse gas emissions and providing localized economic benefits. As environmental consultants Matt Hagemann and Paul E. Rosenfeld note:

[A]ny local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the reduction would vary based on the location and urbanization level of the project site.

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling.

Skilled and trained workforce requirements promote the development of skilled trades that yield sustainable economic development. As the California Workforce

Development Board and the UC Berkeley Center for Labor Research and Education concluded:

. . . labor should be considered an investment rather than a cost – and investments in growing, diversifying, and upskilling California’s workforce can positively affect returns on climate mitigation efforts. In other words, well trained workers are key to delivering emissions reductions and moving California closer to its climate targets.¹

Local skilled and trained workforce requirements and policies have significant environmental benefits since they improve an area’s jobs-housing balance, decreasing the amount of and length of job commutes and their associated greenhouse gas emissions. Recently, on May 7, 2021, the South Coast Air Quality Management District found that that the “[u]se of a local state-certified apprenticeship program or a skilled and trained workforce with a local hire component” can result in air pollutant reductions.²

Cities are increasingly adopting local skilled and trained workforce policies and requirements into general plans and municipal codes. For example, the City of Hayward 2040 General Plan requires the City to “promote local hiring . . . to help achieve a more positive jobs-housing balance, and reduce regional commuting, gas consumption, and greenhouse gas emissions.”³

In fact, the City of Hayward has gone as far as to adopt a Skilled Labor Force policy into its Downtown Specific Plan and municipal code, requiring developments in its Downtown area to requiring that the City “[c]ontribute to the stabilization of regional construction markets by spurring applicants of housing and nonresidential developments to require contractors to utilize apprentices from state-approved, joint

¹ California Workforce Development Board (2020) Putting California on the High Road: A Jobs and Climate Action Plan for 2030 at p. ii, *available at* <https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf>.

² South Coast Air Quality Management District (May 7, 2021) Certify Final Environmental Assessment and Adopt Proposed Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions Program, and Proposed Rule 316 – Fees for Rule 2305, Submit Rule 2305 for Inclusion Into the SIP, and Approve Supporting Budget Actions, *available at* <http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10>

³ City of Hayward (2014) Hayward 2040 General Plan Policy Document at p. 3-99, *available at* https://www.hayward-ca.gov/sites/default/files/documents/General_Plan_FINAL.pdf.

labor-management training programs, . . .”⁴ In addition, the City of Hayward requires all projects 30,000 square feet or larger to “utilize apprentices from state-approved, joint labor-management training programs.”⁵

Locating jobs closer to residential areas can have significant environmental benefits. As the California Planning Roundtable noted in 2008:

People who live and work in the same jurisdiction would be more likely to take transit, walk, or bicycle to work than residents of less balanced communities and their vehicle trips would be shorter. Benefits would include potential reductions in both vehicle miles traveled and vehicle hours traveled.⁶

In addition, local hire mandates as well as skill training are critical facets of a strategy to reduce vehicle miles traveled. As planning experts Robert Cervero and Michael Duncan noted, simply placing jobs near housing stock is insufficient to achieve VMT reductions since the skill requirements of available local jobs must be matched to those held by local residents.⁷ Some municipalities have tied local hire and skilled and trained workforce policies to local development permits to address transportation issues. As Cervero and Duncan note:

In nearly built-out Berkeley, CA, the approach to balancing jobs and housing is to create local jobs rather than to develop new housing.” The city’s First Source program encourages businesses to hire local residents, especially for entry- and intermediate-level jobs, and sponsors vocational training to ensure residents are employment-ready. While the program is voluntary, some 300 businesses have used it to date, placing more than 3,000 city residents in local jobs since it was launched in 1986. When needed, these carrots are matched by sticks, since the city is not shy

⁴ City of Hayward (2019) Hayward Downtown Specific Plan at p. 5-24, *available at* <https://www.hayward-ca.gov/sites/default/files/Hayward%20Downtown%20Specific%20Plan.pdf>.

⁵ City of Hayward Municipal Code, Chapter 10, § 28.5.3.020(C).

⁶ California Planning Roundtable (2008) Deconstructing Jobs-Housing Balance at p. 6, *available at* <https://cprroundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf>

⁷ Cervero, Robert and Duncan, Michael (2006) Which Reduces Vehicle Travel More: Jobs-Housing Balance or Retail-Housing Mixing? *Journal of the American Planning Association* 72 (4), 475-490, 482, *available at* <http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf>.

about negotiating corporate participation in First Source as a condition of approval for development permits.

The Tribe should consider utilizing skilled and trained workforce policies and requirements to benefit the local area economically and mitigate greenhouse gas, air quality and transportation impacts.

I. THE TRIBE FAILED TO COMPLY WITH ALL OF THE NOP REQUIREMENTS SPECIFIED IN THE COMPACT

A. The Tribe Must Assess and Mitigate Substantial Adverse Effects on Human Beings Stemming From COVID-19 Impacts

Pursuant to the Compact, the NOP must provide all interested persons with information describing the Project’s significant effects on the environment sufficient to enable interested persons to make a meaningful response or comment. Compact at 76. At a minimum, the NOP must include “the probable off-reservation environmental effects of the Project.” *Id.*

California law establishes that environmental effects also encompass adverse effects on human beings stemming from a project. Cal. Code Regs. 14 § 15065(a)(4). Public health risks related to construction work constitutes adverse effects on human beings as it has been defined as a Lower to High-risk activity for COVID-19 spread by the Occupations Safety and Health Administration. In fact, several construction sites have recently been identified as sources of community spread of COVID-19.⁸

Nevertheless, the NOP fails to include COVID-19 impacts in its list of environmental effects to be analyzed and mitigated. Thus, the NOP should be revised and recirculated to include such information.

Additionally, in order to properly mitigate COVID-19 impacts and in light of the Compact’s prohibition against conducting Class III gambling in a manner that “endangers the public health, safety, or welfare”, SWRCC requests that the Tribe require safe on-site construction work practices as well as training and certification for any construction workers on the Project Site. Compact at 82. In particular, based upon SWRCC’s experience with safe construction site work practices, SWRCC

⁸ Santa Clara County Public Health (June 12, 2020) COVID-19 CASES AT CONSTRUCTION SITES HIGHLIGHT NEED FOR CONTINUED VIGILANCE IN SECTORS THAT HAVE REOPENED, *available at* <https://www.sccgov.org/sites/covid19/Pages/press-release-06-12-2020-cases-at-construction-sites.aspx>.

recommends that the Tribe require the following while construction activities are being conducted at the Project Site:

Construction Site Design:

- The Project Site will be limited to two controlled entry points.
- Entry points will have temperature screening technicians taking temperature readings when the entry point is open.
- The Temperature Screening Site Plan shows details regarding access to the Project Site and Project Site logistics for conducting temperature screening.
- A 48-hour advance notice will be provided to all trades prior to the first day of temperature screening.
- A perimeter fence directly adjacent to the entry points will be clearly marked indicating the appropriate 6-foot social distancing position for when you approach the screening area.
- There will be clear signage posted at the Project site directing you through temperature screening.
- Provide hand washing stations throughout the construction site.

Testing Procedures:

- The temperature screening being used are non-contact devices.
- Temperature readings will not be recorded.
- Personnel will be screened upon entering the testing center and should only take 1-2 seconds per individual.
- Hard hats, head coverings, sweat, dirt, sunscreen or any other cosmetics must be removed on the forehead before temperature screening.
- Anyone who refuses to submit to a temperature screening or does not answer the health screening questions will be refused access to the Project Site.
- Screening will be performed at entrances from 5:30 am to 7:30 am.

- After 7:30 a.m., only the main gate entrance [ZONE 1] will continue to be used for temperature testing for anybody gaining entry to the project site such as returning personnel, deliveries, and visitors.
- If the digital thermometer displays a temperature reading above 100.0 degrees Fahrenheit, a second reading will be taken to verify an accurate reading.
- If the second reading confirms an elevated temperature, the individual will be instructed that he/she will not be allowed to enter the Project Site. The individual will also be instructed to promptly notify his/her supervisor and his/her human resources (HR) representative.

Planning

- Require the development of an Infectious Disease Preparedness and Response Plan that will include basic infection prevention measures (requiring the use of personal protection equipment), policies and procedures for prompt identification and isolation of sick individuals, social distancing (prohibiting gatherings of no more than 10 people including all-hands meetings and all-hands lunches), and training and workplace controls that meet standards that may be promulgated by the Center for Disease Control, Occupational Safety and Health Administration, Cal/OSHA, California Department of Public Health, or applicable local public health agencies.⁹

The United Brotherhood of Carpenters and Carpenters International Training Fund has developed COVID-19 Training and Certification to ensure that Carpenter union members and apprentices conduct safe work practices. Likewise, the Tribe should

⁹ See also The Center for Construction Research and Training, North America's Building Trades Unions (April 27 2020) NABTU and CPWR COVID-19 Standards for U.S. Construction Sites, available at https://www.cpwr.com/wp-content/uploads/publications/NABTU_CPWR_Standards_COVID-19.pdf; Los Angeles County Department of Public Works (2020) Guidelines for Construction Sites During COVID-19 Pandemic, available at https://dpw.lacounty.gov/building-and-safety/docs/pw_guidelines-construction-sites.pdf.

require that all construction workers undergo COVID-19 Training and Certification before being allowed to conduct construction activities at the Project Site.

B. The NOP is Not Posted on the Tribe's Website

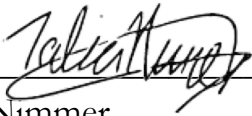
In addition to requiring the Tribe to issue an NOP to the State Clearinghouse in the State Office of Planning and Research and to the County for distribution to the public, the Compact also requires the Tribe to post a copy of the NOP on its website. Compact at 76. Such requirement helps enable individuals interested in responding to or providing comments on the NOP. *Id.*

To date, we do not see any copy of the NOP posted anywhere on the Tribe's website.¹⁰ Accordingly, the Tribe must promptly post a copy of the NOP on its website to comply with the Compact's NOP requirements.

II. CONCLUSION

In view of the above-noted concerns, we respectfully request that the NOP for the Project be recirculated to include COVID-19 impact analysis and mitigation information and that the Tribe promptly post a copy of the NOP on its website. If the Tribe has any questions or concerns, feel free to contact my Office.

Sincerely,



Talia Nimmer
Attorneys for Southwest Regional
Council of Carpenters

Attached:

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling (Exhibit A);

Air Quality and GHG Expert Paul Rosenfeld CV (Exhibit B); and

Air Quality and GHG Expert Matt Hagemann CV (Exhibit C).

¹⁰ The Tribe's website can be found at <https://jamulindianvillage.com/>.

EXHIBIT A



Technical Consultation, Data Analysis and
Litigation Support for the Environment

2656 29th Street, Suite 201
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Paul E. Rosenfeld, PhD
(310) 795-2335
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March 8, 2021

Mitchell M. Tsai
155 South El Molino, Suite 104
Pasadena, CA 91101

Subject: Local Hire Requirements and Considerations for Greenhouse Gas Modeling

Dear Mr. Tsai,

Soil Water Air Protection Enterprise (“SWAPE”) is pleased to provide the following draft technical report explaining the significance of worker trips required for construction of land use development projects with respect to the estimation of greenhouse gas (“GHG”) emissions. The report will also discuss the potential for local hire requirements to reduce the length of worker trips, and consequently, reduced or mitigate the potential GHG impacts.

Worker Trips and Greenhouse Gas Calculations

The California Emissions Estimator Model (“CalEEMod”) is a “statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects.”¹ CalEEMod quantifies construction-related emissions associated with land use projects resulting from off-road construction equipment; on-road mobile equipment associated with workers, vendors, and hauling; fugitive dust associated with grading, demolition, truck loading, and on-road vehicles traveling along paved and unpaved roads; and architectural coating activities; and paving.²

The number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.³

¹ “California Emissions Estimator Model.” CAPCOA, 2017, available at: <http://www.aqmd.gov/caleemod/home>.

² “California Emissions Estimator Model.” CAPCOA, 2017, available at: <http://www.aqmd.gov/caleemod/home>.

³ “CalEEMod User’s Guide.” CAPCOA, November 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.

Specifically, the number and length of vehicle trips is utilized to estimate the vehicle miles travelled (“VMT”) associated with construction. Then, utilizing vehicle-class specific EMFAC 2014 emission factors, CalEEMod calculates the vehicle exhaust, evaporative, and dust emissions resulting from construction-related VMT, including personal vehicles for worker commuting.⁴

Specifically, in order to calculate VMT, CalEEMod multiplies the average daily trip rate by the average overall trip length (see excerpt below):

$$\text{“VMT}_d = \Sigma(\text{Average Daily Trip Rate}_i * \text{Average Overall Trip Length}_i)_n$$

Where:

n = Number of land uses being modeled.”⁵

Furthermore, to calculate the on-road emissions associated with worker trips, CalEEMod utilizes the following equation (see excerpt below):

$$\text{“Emissions}_{\text{pollutant}} = \text{VMT} * \text{EF}_{\text{running,pollutant}}$$

Where:

$\text{Emissions}_{\text{pollutant}}$ = emissions from vehicle running for each pollutant

VMT = vehicle miles traveled

$\text{EF}_{\text{running,pollutant}}$ = emission factor for running emissions.”⁶

Thus, there is a direct relationship between trip length and VMT, as well as a direct relationship between VMT and vehicle running emissions. In other words, when the trip length is increased, the VMT and vehicle running emissions increase as a result. Thus, vehicle running emissions can be reduced by decreasing the average overall trip length, by way of a local hire requirement or otherwise.

Default Worker Trip Parameters and Potential Local Hire Requirements

As previously discussed, the number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.⁷ In order to understand how local hire requirements and associated worker trip length reductions impact GHG emissions calculations, it is important to consider the CalEEMod default worker trip parameters. CalEEMod provides recommended default values based on site-specific information, such as land use type, meteorological data, total lot acreage, project type and typical equipment associated with project type. If more specific project information is known, the user can change the default values and input project-specific values, but the California Environmental Quality Act (“CEQA”) requires that such changes be justified by substantial evidence.⁸ The default number of construction-related worker trips is calculated by multiplying the

⁴ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 14-15.

⁵ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 23.

⁶ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 15.

⁷ “CalEEMod User’s Guide.” CAPCOA, November 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.

⁸ CalEEMod User Guide, available at: <http://www.caleemod.com/>, p. 1, 9.

number of pieces of equipment for all phases by 1.25, with the exception of worker trips required for the building construction and architectural coating phases.⁹ Furthermore, the worker trip vehicle class is a 50/25/25 percent mix of light duty autos, light duty truck class 1 and light duty truck class 2, respectively.”¹⁰ Finally, the default worker trip length is consistent with the length of the operational home-to-work vehicle trips.¹¹ The operational home-to-work vehicle trip lengths are:

“[B]ased on the *location* and *urbanization* selected on the project characteristic screen. These values were *supplied by the air districts or use a default average for the state*. Each district (or county) also assigns trip lengths for urban and rural settings” (emphasis added).¹²

Thus, the default worker trip length is based on the location and urbanization level selected by the User when modeling emissions. The below table shows the CalEEMod default rural and urban worker trip lengths by air basin (see excerpt below and Attachment A).¹³

Worker Trip Length by Air Basin		
Air Basin	Rural (miles)	Urban (miles)
Great Basin Valleys	16.8	10.8
Lake County	16.8	10.8
Lake Tahoe	16.8	10.8
Mojave Desert	16.8	10.8
Mountain Counties	16.8	10.8
North Central Coast	17.1	12.3
North Coast	16.8	10.8
Northeast Plateau	16.8	10.8
Sacramento Valley	16.8	10.8
Salton Sea	14.6	11
San Diego	16.8	10.8
San Francisco Bay Area	10.8	10.8
San Joaquin Valley	16.8	10.8
South Central Coast	16.8	10.8
South Coast	19.8	14.7
Average	16.47	11.17
Minimum	10.80	10.80
Maximum	19.80	14.70
Range	9.00	3.90

⁹ “CalEEMod User’s Guide.” CAPCOA, November 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.

¹⁰ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 15.

¹¹ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 14.

¹² “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 21.

¹³ “Appendix D Default Data Tables.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4, p. D-84 – D-86.

As demonstrated above, default rural worker trip lengths for air basins in California vary from 10.8- to 19.8- miles, with an average of 16.47 miles. Furthermore, default urban worker trip lengths vary from 10.8- to 14.7- miles, with an average of 11.17 miles. Thus, while default worker trip lengths vary by location, default urban worker trip lengths tend to be shorter in length. Based on these trends evident in the CalEEMod default worker trip lengths, we can reasonably assume that the efficacy of a local hire requirement is especially dependent upon the urbanization of the project site, as well as the project location.

Practical Application of a Local Hire Requirement and Associated Impact

To provide an example of the potential impact of a local hire provision on construction-related GHG emissions, we estimated the significance of a local hire provision for the Village South Specific Plan (“Project”) located in the City of Claremont (“City”). The Project proposed to construct 1,000 residential units, 100,000-SF of retail space, 45,000-SF of office space, as well as a 50-room hotel, on the 24-acre site. The Project location is classified as Urban and lies within the Los Angeles-South Coast County. As a result, the Project has a default worker trip length of 14.7 miles.¹⁴ In an effort to evaluate the potential for a local hire provision to reduce the Project’s construction-related GHG emissions, we prepared an updated model, reducing all worker trip lengths to 10 miles (see Attachment B). Our analysis estimates that if a local hire provision with a 10-mile radius were to be implemented, the GHG emissions associated with Project construction would decrease by approximately 17% (see table below and Attachment C).

Local Hire Provision Net Change	
Without Local Hire Provision	
Total Construction GHG Emissions (MT CO ₂ e)	3,623
Amortized Construction GHG Emissions (MT CO ₂ e/year)	120.77
With Local Hire Provision	
Total Construction GHG Emissions (MT CO ₂ e)	3,024
Amortized Construction GHG Emissions (MT CO ₂ e/year)	100.80
% Decrease in Construction-related GHG Emissions	17%

As demonstrated above, by implementing a local hire provision requiring 10 mile worker trip lengths, the Project could reduce potential GHG emissions associated with construction worker trips. More broadly, any local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the reduction would vary based on the location and urbanization level of the project site.

This serves as an example of the potential impacts of local hire requirements on estimated project-level GHG emissions, though it does not indicate that local hire requirements would result in reduced construction-related GHG emission for all projects. As previously described, the significance of a local hire requirement depends on the worker trip length enforced and the default worker trip length for the project’s urbanization level and location.

¹⁴ “Appendix D Default Data Tables.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4, p. D-85.

Disclaimer

SWAPE has received limited discovery. Additional information may become available in the future; thus, we retain the right to revise or amend this report when additional information becomes available. Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the scope of work, work methodologies and protocols, site conditions, analytical testing results, and findings presented. This report reflects efforts which were limited to information that was reasonably accessible at the time of the work, and may contain informational gaps, inconsistencies, or otherwise be incomplete due to the unavailability or uncertainty of information obtained or provided by third parties.

Sincerely,

A handwritten signature in blue ink that reads "Matt Hagemann". The signature is fluid and cursive.

Matt Hagemann, P.G., C.Hg.

A handwritten signature in blue ink that reads "Paul E. Rosenfeld". The signature is fluid and cursive.

Paul E. Rosenfeld, Ph.D.

Attachment A

Location Type	Location Name	Rural H-W (miles)	Urban H-W (miles)
Air Basin	Great Basin	16.8	10.8
Air Basin	Lake County	16.8	10.8
Air Basin	Lake Tahoe	16.8	10.8
Air Basin	Mojave Desert	16.8	10.8
Air Basin	Mountain	16.8	10.8
Air Basin	North Central	17.1	12.3
Air Basin	North Coast	16.8	10.8
Air Basin	Northeast	16.8	10.8
Air Basin	Sacramento	16.8	10.8
Air Basin	Salton Sea	14.6	11
Air Basin	San Diego	16.8	10.8
Air Basin	San Francisco	10.8	10.8
Air Basin	San Joaquin	16.8	10.8
Air Basin	South Central	16.8	10.8
Air Basin	South Coast	19.8	14.7
Air District	Amador County	16.8	10.8
Air District	Antelope Valley	16.8	10.8
Air District	Bay Area AQMD	10.8	10.8
Air District	Butte County	12.54	12.54
Air District	Calaveras	16.8	10.8
Air District	Colusa County	16.8	10.8
Air District	El Dorado	16.8	10.8
Air District	Feather River	16.8	10.8
Air District	Glenn County	16.8	10.8
Air District	Great Basin	16.8	10.8
Air District	Imperial County	10.2	7.3
Air District	Kern County	16.8	10.8
Air District	Lake County	16.8	10.8
Air District	Lassen County	16.8	10.8
Air District	Mariposa	16.8	10.8
Air District	Mendocino	16.8	10.8
Air District	Modoc County	16.8	10.8
Air District	Mojave Desert	16.8	10.8
Air District	Monterey Bay	16.8	10.8
Air District	North Coast	16.8	10.8
Air District	Northern Sierra	16.8	10.8
Air District	Northern	16.8	10.8
Air District	Placer County	16.8	10.8
Air District	Sacramento	15	10

Air District	San Diego	16.8	10.8
Air District	San Joaquin	16.8	10.8
Air District	San Luis Obispo	13	13
Air District	Santa Barbara	8.3	8.3
Air District	Shasta County	16.8	10.8
Air District	Siskiyou County	16.8	10.8
Air District	South Coast	19.8	14.7
Air District	Tehama County	16.8	10.8
Air District	Tuolumne	16.8	10.8
Air District	Ventura County	16.8	10.8
Air District	Yolo/Solano	15	10
County	Alameda	10.8	10.8
County	Alpine	16.8	10.8
County	Amador	16.8	10.8
County	Butte	12.54	12.54
County	Calaveras	16.8	10.8
County	Colusa	16.8	10.8
County	Contra Costa	10.8	10.8
County	Del Norte	16.8	10.8
County	El Dorado-Lake	16.8	10.8
County	El Dorado-	16.8	10.8
County	Fresno	16.8	10.8
County	Glenn	16.8	10.8
County	Humboldt	16.8	10.8
County	Imperial	10.2	7.3
County	Inyo	16.8	10.8
County	Kern-Mojave	16.8	10.8
County	Kern-San	16.8	10.8
County	Kings	16.8	10.8
County	Lake	16.8	10.8
County	Lassen	16.8	10.8
County	Los Angeles-	16.8	10.8
County	Los Angeles-	19.8	14.7
County	Madera	16.8	10.8
County	Marin	10.8	10.8
County	Mariposa	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Merced	16.8	10.8
County	Modoc	16.8	10.8
County	Mono	16.8	10.8
County	Monterey	16.8	10.8
County	Napa	10.8	10.8

County	Nevada	16.8	10.8
County	Orange	19.8	14.7
County	Placer-Lake	16.8	10.8
County	Placer-Mountain	16.8	10.8
County	Placer-	16.8	10.8
County	Plumas	16.8	10.8
County	Riverside-	16.8	10.8
County	Riverside-	19.8	14.7
County	Riverside-Salton	14.6	11
County	Riverside-South	19.8	14.7
County	Sacramento	15	10
County	San Benito	16.8	10.8
County	San Bernardino-	16.8	10.8
County	San Bernardino-	19.8	14.7
County	San Diego	16.8	10.8
County	San Francisco	10.8	10.8
County	San Joaquin	16.8	10.8
County	San Luis Obispo	13	13
County	San Mateo	10.8	10.8
County	Santa Barbara-	8.3	8.3
County	Santa Barbara-	8.3	8.3
County	Santa Clara	10.8	10.8
County	Santa Cruz	16.8	10.8
County	Shasta	16.8	10.8
County	Sierra	16.8	10.8
County	Siskiyou	16.8	10.8
County	Solano-	15	10
County	Solano-San	16.8	10.8
County	Sonoma-North	16.8	10.8
County	Sonoma-San	10.8	10.8
County	Stanislaus	16.8	10.8
County	Sutter	16.8	10.8
County	Tehama	16.8	10.8
County	Trinity	16.8	10.8
County	Tulare	16.8	10.8
County	Tuolumne	16.8	10.8
County	Ventura	16.8	10.8
County	Yolo	15	10
County	Yuba	16.8	10.8
Statewide	Statewide	16.8	10.8

Worker Trip Length by Air Basin		
Air Basin	Rural (miles)	Urban (miles)
Great Basin Valleys	16.8	10.8
Lake County	16.8	10.8
Lake Tahoe	16.8	10.8
Mojave Desert	16.8	10.8
Mountain Counties	16.8	10.8
North Central Coast	17.1	12.3
North Coast	16.8	10.8
Northeast Plateau	16.8	10.8
Sacramento Valley	16.8	10.8
Salton Sea	14.6	11
San Diego	16.8	10.8
San Francisco Bay Area	10.8	10.8
San Joaquin Valley	16.8	10.8
South Central Coast	16.8	10.8
South Coast	19.8	14.7
Average	16.47	11.17
Minimum	10.80	10.80
Maximum	19.80	14.70
Range	9.00	3.90

Attachment B of the SWAPE Comment Letter dated
March 8, 2021 is available upon request.

Attachment C

Local Hire Provision Net Change	
Without Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,623
Amortized (MT CO2e/year)	120.77
With Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,024
Amortized (MT CO2e/year)	100.80
<i>% Decrease in Construction-related GHG Emissions</i>	17%

EXHIBIT B



Paul Rosenfeld, Ph.D.

Principal Environmental Chemist

Chemical Fate and Transport & Air Dispersion Modeling

Risk Assessment & Remediation Specialist

Education

Ph.D. Soil Chemistry, University of Washington, 1999. Dissertation on volatile organic compound filtration.

M.S. Environmental Science, U.C. Berkeley, 1995. Thesis on organic waste economics.

B.A. Environmental Studies, U.C. Santa Barbara, 1991. Thesis on wastewater treatment.

Professional Experience

Dr. Rosenfeld has over 25 years' experience conducting environmental investigations and risk assessments for evaluating impacts to human health, property, and ecological receptors. His expertise focuses on the fate and transport of environmental contaminants, human health risk, exposure assessment, and ecological restoration. Dr. Rosenfeld has evaluated and modeled emissions from unconventional oil drilling operations, oil spills, landfills, boilers and incinerators, process stacks, storage tanks, confined animal feeding operations, and many other industrial and agricultural sources. His project experience ranges from monitoring and modeling of pollution sources to evaluating impacts of pollution on workers at industrial facilities and residents in surrounding communities.

Dr. Rosenfeld has investigated and designed remediation programs and risk assessments for contaminated sites containing lead, heavy metals, mold, bacteria, particulate matter, petroleum hydrocarbons, chlorinated solvents, pesticides, radioactive waste, dioxins and furans, semi- and volatile organic compounds, PCBs, PAHs, perchlorate, asbestos, per- and poly-fluoroalkyl substances (PFOA/PFOS), unusual polymers, fuel oxygenates (MTBE), among other pollutants. Dr. Rosenfeld also has experience evaluating greenhouse gas emissions from various projects and is an expert on the assessment of odors from industrial and agricultural sites, as well as the evaluation of odor nuisance impacts and technologies for abatement of odorous emissions. As a principal scientist at SWAPE, Dr. Rosenfeld directs air dispersion modeling and exposure assessments. He has served as an expert witness and testified about pollution sources causing nuisance and/or personal injury at dozens of sites and has testified as an expert witness on more than ten cases involving exposure to air contaminants from industrial sources.

Professional History:

Soil Water Air Protection Enterprise (SWAPE); 2003 to present; Principal and Founding Partner
UCLA School of Public Health; 2007 to 2011; Lecturer (Assistant Researcher)
UCLA School of Public Health; 2003 to 2006; Adjunct Professor
UCLA Environmental Science and Engineering Program; 2002-2004; Doctoral Intern Coordinator
UCLA Institute of the Environment, 2001-2002; Research Associate
Komex H₂O Science, 2001 to 2003; Senior Remediation Scientist
National Groundwater Association, 2002-2004; Lecturer
San Diego State University, 1999-2001; Adjunct Professor
Anteon Corp., San Diego, 2000-2001; Remediation Project Manager
Ogden (now Amec), San Diego, 2000-2000; Remediation Project Manager
Bechtel, San Diego, California, 1999 – 2000; Risk Assessor
King County, Seattle, 1996 – 1999; Scientist
James River Corp., Washington, 1995-96; Scientist
Big Creek Lumber, Davenport, California, 1995; Scientist
Plumas Corp., California and USFS, Tahoe 1993-1995; Scientist
Peace Corps and World Wildlife Fund, St. Kitts, West Indies, 1991-1993; Scientist

Publications:

Remy, L.L., Clay T., Byers, V., **Rosenfeld P. E.** (2019) Hospital, Health, and Community Burden After Oil Refinery Fires, Richmond, California 2007 and 2012. *Environmental Health*. 18:48

Simons, R.A., Seo, Y. **Rosenfeld, P.**, (2015) Modeling the Effect of Refinery Emission On Residential Property Value. *Journal of Real Estate Research*. 27(3):321-342

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Hensley A.R., Scott, A., **Rosenfeld P.E.**, Clark, J.J.J. (November 4-8, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *APHA 134 Annual Meeting & Exposition*. Lecture conducted from Boston Massachusetts.

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Paul Rosenfeld Ph.D. (September 19, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, *Toxicology and Remediation PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel, Irvine California.

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Paul Rosenfeld Ph.D. (September 26-27, 2005). Fate, Transport and Persistence of PDBEs. *Mealey's Groundwater Conference*. Lecture conducted from Ritz Carlton Hotel, Marina Del Ray, California.

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Paul Rosenfeld, Ph.D. (April 7, 2004). A National Damage Assessment Model For PCE and Dry Cleaners. *Drycleaner Symposium. California Ground Water Association*. Lecture conducted from Radison Hotel, Sacramento, California.

Rosenfeld, P. E., Grey, M., (June 2003) Two stage biofilter for biosolids composting odor control. *Seventh International In Situ And On Site Bioremediation Symposium Battelle Conference* Orlando, FL.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. (February 20-21, 2003) Understanding Historical Use, Chemical Properties, Toxicity and Regulatory Guidance of 1,4 Dioxane. *National Groundwater Association. Southwest Focus Conference. Water Supply and Emerging Contaminants..* Lecture conducted from Hyatt Regency Phoenix Arizona.

Paul Rosenfeld, Ph.D. (February 6-7, 2003). Underground Storage Tank Litigation and Remediation. *California CUPA Forum*. Lecture conducted from Marriott Hotel, Anaheim California.

Paul Rosenfeld, Ph.D. (October 23, 2002) Underground Storage Tank Litigation and Remediation. *EPA Underground Storage Tank Roundtable*. Lecture conducted from Sacramento California.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Understanding Odor from Compost, *Wastewater and Industrial Processes. Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Using High Carbon Wood Ash to Control Compost Odor. *Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Grey, M. A. (September 22-24, 2002). Biocycle Composting For Coastal Sage Restoration. *Northwest Biosolids Management Association*. Lecture conducted from Vancouver Washington..

Rosenfeld, P.E. and Grey, M. A. (November 11-14, 2002). Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Soil Science Society Annual Conference*. Lecture conducted from Indianapolis, Maryland.

Rosenfeld, P.E. (September 16, 2000). Two stage biofilter for biosolids composting odor control. *Water Environment Federation*. Lecture conducted from Anaheim California.

Rosenfeld, P.E. (October 16, 2000). Wood ash and biofilter control of compost odor. *Biofest*. Lecture conducted from Ocean Shores, California.

Rosenfeld, P.E. (2000). Bioremediation Using Organic Soil Amendments. *California Resource Recovery Association*. Lecture conducted from Sacramento California.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. *Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings*. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., and C.L. Henry. (1999). An evaluation of ash incorporation with biosolids for odor reduction. *Soil Science Society of America*. Lecture conducted from Salt Lake City Utah.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Comparison of Microbial Activity and Odor Emissions from Three Different Biosolids Applied to Forest Soil. *Brown and Caldwell*. Lecture conducted from Seattle Washington.

Rosenfeld, P.E., C.L. Henry. (1998). Characterization, Quantification, and Control of Odor Emissions from Biosolids Application To Forest Soil. *Biofest*. Lecture conducted from Lake Chelan, Washington.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., C.L. Henry, R. B. Harrison, and R. Dills. (1997). Comparison of Odor Emissions From Three Different Biosolids Applied to Forest Soil. *Soil Science Society of America*. Lecture conducted from Anaheim California.

Teaching Experience:

UCLA Department of Environmental Health (Summer 2003 through 20010) Taught Environmental Health Science 100 to students, including undergrad, medical doctors, public health professionals and nurses. Course focused on the health effects of environmental contaminants.

National Ground Water Association, Successful Remediation Technologies. Custom Course in Sante Fe, New Mexico. May 21, 2002. Focused on fate and transport of fuel contaminants associated with underground storage tanks.

National Ground Water Association; Successful Remediation Technologies Course in Chicago Illinois. April 1, 2002. Focused on fate and transport of contaminants associated with Superfund and RCRA sites.

California Integrated Waste Management Board, April and May, 2001. Alternative Landfill Caps Seminar in San Diego, Ventura, and San Francisco. Focused on both prescriptive and innovative landfill cover design.

UCLA Department of Environmental Engineering, February 5, 2002. Seminar on Successful Remediation Technologies focusing on Groundwater Remediation.

University Of Washington, Soil Science Program, Teaching Assistant for several courses including: Soil Chemistry, Organic Soil Amendments, and Soil Stability.

U.C. Berkeley, Environmental Science Program Teaching Assistant for Environmental Science 10.

Academic Grants Awarded:

California Integrated Waste Management Board. \$41,000 grant awarded to UCLA Institute of the Environment. Goal: To investigate effect of high carbon wood ash on volatile organic emissions from compost. 2001.

Synagro Technologies, Corona California: \$10,000 grant awarded to San Diego State University. Goal: investigate effect of biosolids for restoration and remediation of degraded coastal sage soils. 2000.

King County, Department of Research and Technology, Washington State. \$100,000 grant awarded to University of Washington: Goal: To investigate odor emissions from biosolids application and the effect of polymers and ash on VOC emissions. 1998.

Northwest Biosolids Management Association, Washington State. \$20,000 grant awarded to investigate effect of polymers and ash on VOC emissions from biosolids. 1997.

James River Corporation, Oregon: \$10,000 grant was awarded to investigate the success of genetically engineered Poplar trees with resistance to round-up. 1996.

United State Forest Service, Tahoe National Forest: \$15,000 grant was awarded to investigating fire ecology of the Tahoe National Forest. 1995.

Kellogg Foundation, Washington D.C. \$500 grant was awarded to construct a large anaerobic digester on St. Kitts in West Indies. 1993

Deposition and/or Trial Testimony:

In the United States District Court For The District of New Jersey

Duarte et al, *Plaintiffs*, vs. United States Metals Refining Company et. al. *Defendant*.

Case No.: 2:17-cv-01624-ES-SCM

Rosenfeld Deposition. 6-7-2019

In the United States District Court of Southern District of Texas Galveston Division

M/T Carla Maersk, *Plaintiffs*, vs. Conti 168., Schiffahrts-GMBH & Co. Bulker KG MS “Conti Perdido”
Defendant.

Case No.: 3:15-CV-00106 consolidated with 3:15-CV-00237

Rosenfeld Deposition. 5-9-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica

Carole-Taddeo-Bates et al., vs. Ifran Khan et al., Defendants

Case No.: No. BC615636

Rosenfeld Deposition, 1-26-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica

The San Gabriel Valley Council of Governments et al. vs El Adobe Apts. Inc. et al., Defendants

Case No.: No. BC646857

Rosenfeld Deposition, 10-6-2018; Trial 3-7-19

In United States District Court For The District of Colorado

Bells et al. Plaintiff vs. The 3M Company et al., Defendants

Case: No 1:16-cv-02531-RBJ

Rosenfeld Deposition, 3-15-2018 and 4-3-2018

In The District Court Of Regan County, Texas, 112th Judicial District

Phillip Bales et al., Plaintiff vs. Dow Agrosiences, LLC, et al., Defendants

Cause No 1923

Rosenfeld Deposition, 11-17-2017

In The Superior Court of the State of California In And For The County Of Contra Costa

Simons et al., Plaintiffs vs. Chevron Corporation, et al., Defendants

Cause No C12-01481

Rosenfeld Deposition, 11-20-2017

In The Circuit Court Of The Twentieth Judicial Circuit, St Clair County, Illinois

Martha Custer et al., Plaintiff vs. Cerro Flow Products, Inc., Defendants

Case No.: No. 0i9-L-2295

Rosenfeld Deposition, 8-23-2017

In The Superior Court of the State of California, For The County of Los Angeles

Warrn Gilbert and Penny Gilber, Plaintiff vs. BMW of North America LLC

Case No.: LC102019 (c/w BC582154)

Rosenfeld Deposition, 8-16-2017, Trail 8-28-2018

In the Northern District Court of Mississippi, Greenville Division

Brenda J. Cooper, et al., *Plaintiffs*, vs. Meritor Inc., et al., *Defendants*

Case Number: 4:16-cv-52-DMB-JVM

Rosenfeld Deposition: July 2017

In The Superior Court of the State of Washington, County of Snohomish
Michael Davis and Julie Davis et al., Plaintiff vs. Cedar Grove Composting Inc., Defendants
Case No.: No. 13-2-03987-5
Rosenfeld Deposition, February 2017
Trial, March 2017

In The Superior Court of the State of California, County of Alameda
Charles Spain., Plaintiff vs. Thermo Fisher Scientific, et al., Defendants
Case No.: RG14711115
Rosenfeld Deposition, September 2015

In The Iowa District Court In And For Poweshiek County
Russell D. Winburn, et al., Plaintiffs vs. Doug Hoksbergen, et al., Defendants
Case No.: LALA002187
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Jerry Dovico, et al., Plaintiffs vs. Valley View Sine LLC, et al., Defendants
Law No.: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Doug Pauls, et al., et al., Plaintiffs vs. Richard Warren, et al., Defendants
Law No.: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Circuit Court of Ohio County, West Virginia
Robert Andrews, et al. v. Antero, et al.
Civil Action NO. 14-C-30000
Rosenfeld Deposition, June 2015

In The Third Judicial District County of Dona Ana, New Mexico
Betty Gonzalez, et al. Plaintiffs vs. Del Oro Dairy, Del Oro Real Estate LLC, Jerry Settles and Deward
DeRuyter, Defendants
Rosenfeld Deposition: July 2015

In The Iowa District Court For Muscatine County
Laurie Freeman et. al. Plaintiffs vs. Grain Processing Corporation, Defendant
Case No 4980
Rosenfeld Deposition: May 2015

In the Circuit Court of the 17th Judicial Circuit, in and For Broward County, Florida
Walter Hinton, et. al. Plaintiff, vs. City of Fort Lauderdale, Florida, a Municipality, Defendant.
Case Number CACE07030358 (26)
Rosenfeld Deposition: December 2014

In the United States District Court Western District of Oklahoma
Tommy McCarty, et al., Plaintiffs, v. Oklahoma City Landfill, LLC d/b/a Southeast Oklahoma City
Landfill, et al. Defendants.
Case No. 5:12-cv-01152-C
Rosenfeld Deposition: July 2014

In the County Court of Dallas County Texas
Lisa Parr et al, *Plaintiff*, vs. Aruba et al, *Defendant*.
Case Number cc-11-01650-E
Rosenfeld Deposition: March and September 2013
Rosenfeld Trial: April 2014

In the Court of Common Pleas of Tuscarawas County Ohio
John Michael Abicht, et al., *Plaintiffs*, vs. Republic Services, Inc., et al., *Defendants*
Case Number: 2008 CT 10 0741 (Cons. w/ 2009 CV 10 0987)
Rosenfeld Deposition: October 2012

In the United States District Court of Southern District of Texas Galveston Division
Kyle Cannon, Eugene Donovan, Genaro Ramirez, Carol Sassler, and Harvey Walton, each Individually and on behalf of those similarly situated, *Plaintiffs*, vs. BP Products North America, Inc., *Defendant*.
Case 3:10-cv-00622
Rosenfeld Deposition: February 2012
Rosenfeld Trial: April 2013

In the Circuit Court of Baltimore County Maryland
Philip E. Cvach, II et al., *Plaintiffs* vs. Two Farms, Inc. d/b/a Royal Farms, Defendants
Case Number: 03-C-12-012487 OT
Rosenfeld Deposition: September 2013

EXHIBIT C



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Santa Monica, California 90401
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Matthew F. Hagemann, P.G., C.Hg., QSD, QSP

**Geologic and Hydrogeologic Characterization
Industrial Stormwater Compliance
Investigation and Remediation Strategies
Litigation Support and Testifying Expert
CEQA Review**

Education:

M.S. Degree, Geology, California State University Los Angeles, Los Angeles, CA, 1984.

B.A. Degree, Geology, Humboldt State University, Arcata, CA, 1982.

Professional Certifications:

California Professional Geologist

California Certified Hydrogeologist

Qualified SWPPP Developer and Practitioner

Professional Experience:

Matt has 25 years of experience in environmental policy, assessment and remediation. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Matt also served as a Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closure. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) while also working with permit holders to improve hydrogeologic characterization and water quality monitoring.

Matt has worked closely with U.S. EPA legal counsel and the technical staff of several states in the application and enforcement of RCRA, Safe Drinking Water Act and Clean Water Act regulations. Matt has trained the technical staff in the States of California, Hawaii, Nevada, Arizona and the Territory of Guam in the conduct of investigations, groundwater fundamentals, and sampling techniques.

Positions Matt has held include:

- Founding Partner, Soil/Water/Air Protection Enterprise (SWAPE) (2003 – present);
- Geology Instructor, Golden West College, 2010 – 2014;
- Senior Environmental Analyst, Komex H2O Science, Inc. (2000 -- 2003);

- Executive Director, Orange Coast Watch (2001 – 2004);
- Senior Science Policy Advisor and Hydrogeologist, U.S. Environmental Protection Agency (1989–1998);
- Hydrogeologist, National Park Service, Water Resources Division (1998 – 2000);
- Adjunct Faculty Member, San Francisco State University, Department of Geosciences (1993 – 1998);
- Instructor, College of Marin, Department of Science (1990 – 1995);
- Geologist, U.S. Forest Service (1986 – 1998); and
- Geologist, Dames & Moore (1984 – 1986).

Senior Regulatory and Litigation Support Analyst:

With SWAPE, Matt’s responsibilities have included:

- Lead analyst and testifying expert in the review of over 100 environmental impact reports since 2003 under CEQA that identify significant issues with regard to hazardous waste, water resources, water quality, air quality, Valley Fever, greenhouse gas emissions, and geologic hazards. Make recommendations for additional mitigation measures to lead agencies at the local and county level to include additional characterization of health risks and implementation of protective measures to reduce worker exposure to hazards from toxins and Valley Fever.
- Stormwater analysis, sampling and best management practice evaluation at industrial facilities.
- Manager of a project to provide technical assistance to a community adjacent to a former Naval shipyard under a grant from the U.S. EPA.
- Technical assistance and litigation support for vapor intrusion concerns.
- Lead analyst and testifying expert in the review of environmental issues in license applications for large solar power plants before the California Energy Commission.
- Manager of a project to evaluate numerous formerly used military sites in the western U.S.
- Manager of a comprehensive evaluation of potential sources of perchlorate contamination in Southern California drinking water wells.
- Manager and designated expert for litigation support under provisions of Proposition 65 in the review of releases of gasoline to sources drinking water at major refineries and hundreds of gas stations throughout California.
- Expert witness on two cases involving MTBE litigation.
- Expert witness and litigation support on the impact of air toxins and hazards at a school.
- Expert witness in litigation at a former plywood plant.

With Komex H2O Science Inc., Matt’s duties included the following:

- Senior author of a report on the extent of perchlorate contamination that was used in testimony by the former U.S. EPA Administrator and General Counsel.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of MTBE use, research, and regulation.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of perchlorate use, research, and regulation.
- Senior researcher in a study that estimates nationwide costs for MTBE remediation and drinking water treatment, results of which were published in newspapers nationwide and in testimony against provisions of an energy bill that would limit liability for oil companies.
- Research to support litigation to restore drinking water supplies that have been contaminated by MTBE in California and New York.

- Expert witness testimony in a case of oil production-related contamination in Mississippi.
- Lead author for a multi-volume remedial investigation report for an operating school in Los Angeles that met strict regulatory requirements and rigorous deadlines.

- Development of strategic approaches for cleanup of contaminated sites in consultation with clients and regulators.

Executive Director:

As Executive Director with Orange Coast Watch, Matt led efforts to restore water quality at Orange County beaches from multiple sources of contamination including urban runoff and the discharge of wastewater. In reporting to a Board of Directors that included representatives from leading Orange County universities and businesses, Matt prepared issue papers in the areas of treatment and disinfection of wastewater and control of the discharge of grease to sewer systems. Matt actively participated in the development of countywide water quality permits for the control of urban runoff and permits for the discharge of wastewater. Matt worked with other nonprofits to protect and restore water quality, including Surfrider, Natural Resources Defense Council and Orange County CoastKeeper as well as with business institutions including the Orange County Business Council.

Hydrogeology:

As a Senior Hydrogeologist with the U.S. Environmental Protection Agency, Matt led investigations to characterize and cleanup closing military bases, including Mare Island Naval Shipyard, Hunters Point Naval Shipyard, Treasure Island Naval Station, Alameda Naval Station, Moffett Field, Mather Army Airfield, and Sacramento Army Depot. Specific activities were as follows:

- Led efforts to model groundwater flow and contaminant transport, ensured adequacy of monitoring networks, and assessed cleanup alternatives for contaminated sediment, soil, and groundwater.
- Initiated a regional program for evaluation of groundwater sampling practices and laboratory analysis at military bases.
- Identified emerging issues, wrote technical guidance, and assisted in policy and regulation development through work on four national U.S. EPA workgroups, including the Superfund Groundwater Technical Forum and the Federal Facilities Forum.

At the request of the State of Hawaii, Matt developed a methodology to determine the vulnerability of groundwater to contamination on the islands of Maui and Oahu. He used analytical models and a GIS to show zones of vulnerability, and the results were adopted and published by the State of Hawaii and County of Maui.

As a hydrogeologist with the EPA Groundwater Protection Section, Matt worked with provisions of the Safe Drinking Water Act and NEPA to prevent drinking water contamination. Specific activities included the following:

- Received an EPA Bronze Medal for his contribution to the development of national guidance for the protection of drinking water.
- Managed the Sole Source Aquifer Program and protected the drinking water of two communities through designation under the Safe Drinking Water Act. He prepared geologic reports, conducted public hearings, and responded to public comments from residents who were very concerned about the impact of designation.

- Reviewed a number of Environmental Impact Statements for planned major developments, including large hazardous and solid waste disposal facilities, mine reclamation, and water transfer.

Matt served as a hydrogeologist with the RCRA Hazardous Waste program. Duties were as follows:

- Supervised the hydrogeologic investigation of hazardous waste sites to determine compliance with Subtitle C requirements.
- Reviewed and wrote "part B" permits for the disposal of hazardous waste.
- Conducted RCRA Corrective Action investigations of waste sites and led inspections that formed the basis for significant enforcement actions that were developed in close coordination with U.S. EPA legal counsel.
- Wrote contract specifications and supervised contractor's investigations of waste sites.

With the National Park Service, Matt directed service-wide investigations of contaminant sources to prevent degradation of water quality, including the following tasks:

- Applied pertinent laws and regulations including CERCLA, RCRA, NEPA, NRDA, and the Clean Water Act to control military, mining, and landfill contaminants.
- Conducted watershed-scale investigations of contaminants at parks, including Yellowstone and Olympic National Park.
- Identified high-levels of perchlorate in soil adjacent to a national park in New Mexico and advised park superintendent on appropriate response actions under CERCLA.
- Served as a Park Service representative on the Interagency Perchlorate Steering Committee, a national workgroup.
- Developed a program to conduct environmental compliance audits of all National Parks while serving on a national workgroup.
- Co-authored two papers on the potential for water contamination from the operation of personal watercraft and snowmobiles, these papers serving as the basis for the development of nation-wide policy on the use of these vehicles in National Parks.
- Contributed to the Federal Multi-Agency Source Water Agreement under the Clean Water Action Plan.

Policy:

Served senior management as the Senior Science Policy Advisor with the U.S. Environmental Protection Agency, Region 9. Activities included the following:

- Advised the Regional Administrator and senior management on emerging issues such as the potential for the gasoline additive MTBE and ammonium perchlorate to contaminate drinking water supplies.
- Shaped EPA's national response to these threats by serving on workgroups and by contributing to guidance, including the Office of Research and Development publication, *Oxygenates in Water: Critical Information and Research Needs*.
- Improved the technical training of EPA's scientific and engineering staff.
- Earned an EPA Bronze Medal for representing the region's 300 scientists and engineers in negotiations with the Administrator and senior management to better integrate scientific principles into the policy-making process.
- Established national protocol for the peer review of scientific documents.

Geology:

With the U.S. Forest Service, Matt led investigations to determine hillslope stability of areas proposed for timber harvest in the central Oregon Coast Range. Specific activities were as follows:

- Mapped geology in the field, and used aerial photographic interpretation and mathematical models to determine slope stability.
- Coordinated his research with community members who were concerned with natural resource protection.
- Characterized the geology of an aquifer that serves as the sole source of drinking water for the city of Medford, Oregon.

As a consultant with Dames and Moore, Matt led geologic investigations of two contaminated sites (later listed on the Superfund NPL) in the Portland, Oregon, area and a large hazardous waste site in eastern Oregon. Duties included the following:

- Supervised year-long effort for soil and groundwater sampling.
- Conducted aquifer tests.
- Investigated active faults beneath sites proposed for hazardous waste disposal.

Teaching:

From 1990 to 1998, Matt taught at least one course per semester at the community college and university levels:

- At San Francisco State University, held an adjunct faculty position and taught courses in environmental geology, oceanography (lab and lecture), hydrogeology, and groundwater contamination.
- Served as a committee member for graduate and undergraduate students.
- Taught courses in environmental geology and oceanography at the College of Marin.

Matt taught physical geology (lecture and lab and introductory geology at Golden West College in Huntington Beach, California from 2010 to 2014.

Invited Testimony, Reports, Papers and Presentations:

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Presentation to the Public Environmental Law Conference, Eugene, Oregon.

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Invited presentation to U.S. EPA Region 9, San Francisco, California.

Hagemann, M.F., 2005. Use of Electronic Databases in Environmental Regulation, Policy Making and Public Participation. Brownfields 2005, Denver, Colorado.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Nevada and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Las Vegas, NV (served on conference organizing committee).

Hagemann, M.F., 2004. Invited testimony to a California Senate committee hearing on air toxins at schools in Southern California, Los Angeles.

Brown, A., Farrow, J., Gray, A. and **Hagemann, M.**, 2004. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to the Ground Water and Environmental Law Conference, National Groundwater Association.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Arizona and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Phoenix, AZ (served on conference organizing committee).

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in the Southwestern U.S. Invited presentation to a special committee meeting of the National Academy of Sciences, Irvine, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a tribal EPA meeting, Pechanga, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a meeting of tribal representatives, Parker, AZ.

Hagemann, M.F., 2003. Impact of Perchlorate on the Colorado River and Associated Drinking Water Supplies. Invited presentation to the Inter-Tribal Meeting, Torres Martinez Tribe.

Hagemann, M.F., 2003. The Emergence of Perchlorate as a Widespread Drinking Water Contaminant. Invited presentation to the U.S. EPA Region 9.

Hagemann, M.F., 2003. A Deductive Approach to the Assessment of Perchlorate Contamination. Invited presentation to the California Assembly Natural Resources Committee.

Hagemann, M.F., 2003. Perchlorate: A Cold War Legacy in Drinking Water. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. From Tank to Tap: A Chronology of MTBE in Groundwater. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. A Chronology of MTBE in Groundwater and an Estimate of Costs to Address Impacts to Groundwater. Presentation to the annual meeting of the Society of Environmental Journalists.

Hagemann, M.F., 2002. An Estimate of the Cost to Address MTBE Contamination in Groundwater (and Who Will Pay). Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to a meeting of the U.S. EPA and State Underground Storage Tank Program managers.

Hagemann, M.F., 2001. From Tank to Tap: A Chronology of MTBE in Groundwater. Unpublished report.

Hagemann, M.F., 2001. Estimated Cleanup Cost for MTBE in Groundwater Used as Drinking Water. Unpublished report.

Hagemann, M.F., 2001. Estimated Costs to Address MTBE Releases from Leaking Underground Storage Tanks. Unpublished report.

Hagemann, M.F., and VanMouwerik, M., 1999. Potential Water Quality Concerns Related to Snowmobile Usage. Water Resources Division, National Park Service, Technical Report.

VanMouwerik, M. and **Hagemann, M.F.** 1999, Water Quality Concerns Related to Personal Watercraft Usage. Water Resources Division, National Park Service, Technical Report.

Hagemann, M.F., 1999, Is Dilution the Solution to Pollution in National Parks? The George Wright Society Biannual Meeting, Asheville, North Carolina.

Hagemann, M.F., 1997, The Potential for MTBE to Contaminate Groundwater. U.S. EPA Superfund Groundwater Technical Forum Annual Meeting, Las Vegas, Nevada.

Hagemann, M.F., and Gill, M., 1996, Impediments to Intrinsic Remediation, Moffett Field Naval Air Station, Conference on Intrinsic Remediation of Chlorinated Hydrocarbons, Salt Lake City.

Hagemann, M.F., Fukunaga, G.L., 1996, The Vulnerability of Groundwater to Anthropogenic Contaminants on the Island of Maui, Hawaii. Hawaii Water Works Association Annual Meeting, Maui, October 1996.

Hagemann, M. F., Fukanaga, G. L., 1996, Ranking Groundwater Vulnerability in Central Oahu, Hawaii. Proceedings, Geographic Information Systems in Environmental Resources Management, Air and Waste Management Association Publication VIP-61.

Hagemann, M.F., 1994. Groundwater Characterization and Cleanup at Closing Military Bases in California. Proceedings, California Groundwater Resources Association Meeting.

Hagemann, M.F. and Sabol, M.A., 1993. Role of the U.S. EPA in the High Plains States Groundwater Recharge Demonstration Program. Proceedings, Sixth Biennial Symposium on the Artificial Recharge of Groundwater.

Hagemann, M.F., 1993. U.S. EPA Policy on the Technical Impracticability of the Cleanup of DNAPL-contaminated Groundwater. California Groundwater Resources Association Meeting.

Hagemann, M.F., 1992. Dense Nonaqueous Phase Liquid Contamination of Groundwater: An Ounce of Prevention... Proceedings, Association of Engineering Geologists Annual Meeting, v. 35.

Other Experience:

Selected as subject matter expert for the California Professional Geologist licensing examination, 2009-2011.

Appendix C

Water Supply and Wastewater Report



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Jamul Casino Hotel and Event Center Project Assessment of Wastewater and Water Related Environmental Off-Site Impacts Report

September 26, 2022

Prepared for:

Ms. Ryan Sawyer
Acorn Environmental
5170 Golden Foothill Parkway
El Dorado Hills, California 95762

Prepared by:

EEC Environmental
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Orange, California 92868

A handwritten signature in black ink, appearing to read 'Varshini'.

Varshini Reddy
Project Engineer

A handwritten signature in black ink, appearing to read 'Stan Steinbach'.

Stan Steinbach, PE
Principal Engineer



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Appendices

Appendix A: OWD Capacity Determination Letter - Jamul Casino Hotel_APN 597-060-06-00_5-11-22

1.0 INTRODUCTION

This report has been prepared to present the results of the assessment of the wastewater and water related environmental off site impacts associated with the Jamul Casino Hotel and Event Center Project. The assessment was based on available historical records from the Jamul Casino and the Jamul Casino WWTP operations, and from correspondence with the Otay Water District. This introductory section will discuss the site location, the background of the project, and a brief description of how the report is organized.

1.1 Location

The proposed project is located on the Jamul Indian Village of California Reservation at 14145 Campo Road, Jamul, CA 91935. The Reservation is located within portions of Section 10 and unsectioned areas of Township 17 S, Range 1 East, San Bernardino Baseline and Meridian.

State Route 94 (SR 94) provides regional access to the Reservation from downtown San Diego, which is located approximately 20 miles to the west of the Reservation (Figure 1 below). Local access to the Reservation is provided directly from SR 94 via Daisy Drive and an access road limited to authorized vehicles.

Figure 1: Jamul Casino Location Map



1.2 Background

The Jamul Indian Village of California (Tribe) is proposing to expand its Jamul Casino to include a new event center within the Casino building, a new hotel, an additional parking garage, and associated infrastructure. The proposed improvements will be developed on the Tribe's existing Reservation. The existing casino facility includes a 203,130 square-foot (sf) casino and an eight-level parking garage. The proposed casino remodeling would eliminate the second floor and the fourth floor and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation. The existing restaurant located on the second floor of the casino building would be relocated to the third floor with no changes in occupant capacity. Approximately 11,838 sf of existing office space on the eastern portion of the third floor would be relocated to an expanded area of the western portion of the third floor (Figure 2). The new event venue would result in a net increase of approximately 35,000 sf of enclosed, covered outdoor, and uncovered outdoor areas. No expansion of the gaming floor or increase in the number of slot machines or table games is proposed.

The proposed hotel will consist of a total of 16 floors, with 10 floors of guest rooms, roof-top pool, spa, restaurant, and banquet space. The proposed hotel will provide up to 225 rooms and be developed on the west side of the Reservation. An additional parking garage will be located south of the proposed hotel building. The existing tribal community center and administration building currently located on the west side of the Reservation will be relocated to accommodate the footprint of the new hotel and parking structure. Refer to Figure 2 below.

Figure 2: Jamul Casino Property with Proposed Expansion



1.3 Report Organization

The report is organized as follows:

- Section 1.0 – “Introduction” provides the location, project background information, and the organization of the Report.
- Section 2.0 – “Wastewater” describes: the WWTP; the wastewater historical flows, water reuse and WWTP discharges; the projected new wastewater flows, water reuse and WWTP discharges with the Casino Hotel and Event Center Project; and the environmental off-site impacts related to wastewater.
- Section 3.0 – “Water” describes the water supply, the historical water usage, the projected future water demand, and the environmental off-site impacts related to water.
- Section 4.0 – “Summary of Environmental Off-site Impacts” provides a summary of the wastewater and water off-site impacts.

2.0 WASTEWATER

2.1 Wastewater Treatment Plant (WWTP)

The Jamul Casino Wastewater Treatment Plant (WWTP) is an existing wastewater treatment plant that is owned by the Jamul Indian Village and is operated by the Tribe’s contract operator Water Quality Specialists (WQS). The existing WWTP is located on the Reservation west of the casino building. The WWTP receives wastewater flows from the nearby community center, the administration building, the Casino, and the Casino’s cooling tower. The WWTP was designed to treat the wastewater at design flows (Table 1 below) to meet the Department of Drinking Water (DDW) Title 22 standards for disinfected tertiary recycled water, so that the Casino can reuse the recycled water for irrigation purposes, toilet flushing, and as a water source for the cooling tower.

Table 1: WWTP Design Flows, GPD

Description	Design Flow
Average design flow	68,000 gpd
Daily Max design flow	98,000 gpd
Hourly peak design flow	128,000 gpd

Excess wastewater that cannot be reused or treated on-site, waste activated sludge and brine waste¹ is trucked to the City of San Diego Pump Station 1, for further treatment and disposal at a regional WWTP. Additionally, the Tribe has a National Pollution Discharge System (NPDES) permit for direct discharge of up to 68,000 gallons per day of tertiary treated wastewater to an outfall to Willow Creek (Creek) within the Reservation.

The list of permits related to the WWTP operations and discharges are identified in Table 2 below.

¹ Brine waste is wastewater with high total dissolved solids (TDS) concentrations. The brine waste collected at the WWTP for off-site disposal is from the Casino water softener and from the discharge of the TDS removal process waste (Reverse Osmosis concentrate discharge) from the treatment of the incoming wastewater flows (includes cooling tower blowdown) to the WWTP.

Table 2: WWTP Related Permits

Agency	Permit/License	Permit/ID Number
SWRCB	Grade V Wastewater Operator (WQS)	6165
County of San Diego	County Environmental Health Sewage Hauler Permit (WQS)	DEH2017-LSHOP-000049
City of San Diego	Industrial Waste Hauler Permit (WQS)	25-0510-04
City of San Diego	Domestic Waste Hauler Permit (WQS)	25-0509-04
City of San Diego	Brine Waste Generator (WQS)	25-0485-08A
City of San Diego	Activated Sludge Waste Generator (WQS)	25-0491-10A
City of San Diego	Plant Effluent Generator (WQS)	25-0495-07A
EPA	National Pollutant Discharge Elimination System (NPDES) Permit (Jamul Indian Village)	CA0084284
EPA Region 9	Underground Injection Control (UIC, Class V)	100000115

SWRCB – California State Water Resources Control Board

EPA – Environmental Protection Agency

2.2 Wastewater Historical

2.2.1 Wastewater Influent Flows

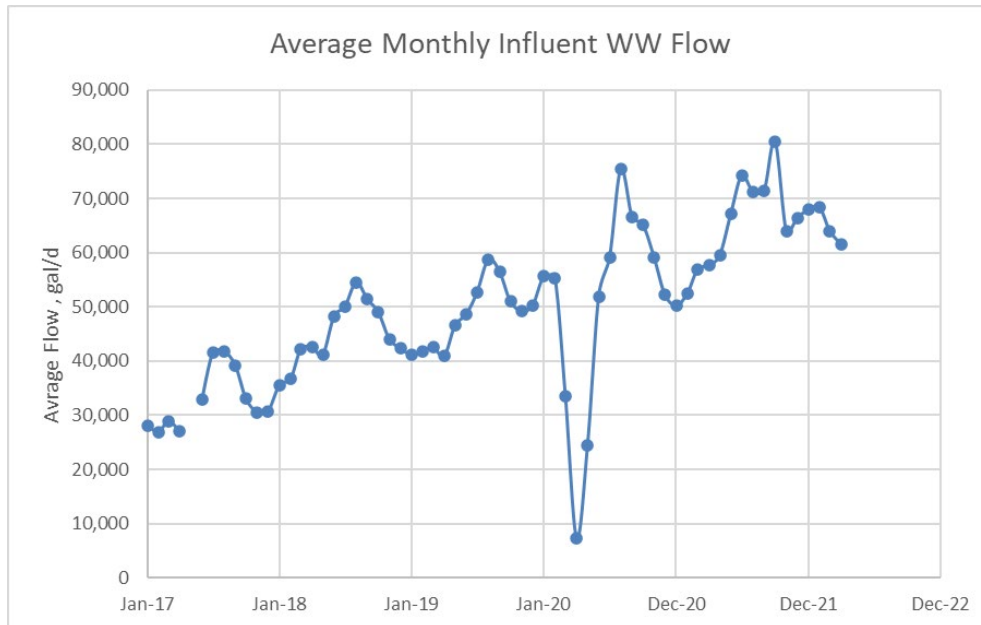
Daily influent wastewater flow data from January 2017 through April 2022 (except for April 2017) to the WWTP was evaluated with yearly flows tabulated in Table 3 (below) and average monthly flows graphically displayed in Figure 3 (below). The figure depicts the monthly average flows over the time period, which includes the flows from the Casino cooling tower blowdown.

Table 3: WWTP Influent Wastewater Yearly Flows

Year	Influent Wastewater Flow	
	Average Daily Flow (gallons/day)	Total (gallons)
2017	32,798	11,000,475
2018	44,829	16,379,743
2019	48,338	17,661,155
2020	50,483	18,483,921
2021	64,311	23,505,717
2022*	65,467	7,851,282

*Data for January to April 2022

Figure 3: WWTP Influent Wastewater Average Monthly Flows



The figure shows an increasing trend of approximately 8,000 gallons/year for the average monthly flows. The flow decreased during the COVID-19 lockdown (March through May 2020) but then pickup to “normal.” Maximum monthly flow was about 80,000 gallons per day (gpd) in October 2021. Additionally, the summer and early fall (warmer months) have higher flows than the winter (cooler) months likely partially attributable to cooling tower usage and associated blowdown (discharge) to the WWTP.

Analysis of the daily influent flow data is presented in Table 4 and shows the flows are substantially higher at the present time with a maximum day flow of nearly 105,000 gpd which occurred on October 23, 2021. All of the “multi-day average” flows included October 23, 2021.

Cooling tower blowdown, from the original casino design criteria, was projected to be 10,233 gpd. Subtracting the cooling tower wastewater from the values in Table 4, results in the estimated wastewater flows from the casino, which are shown in Table 5. Note: the cooling tower blowdown is likely higher in the summer and early fall months than the originally projected flow rate, which would result in casino wastewater flows (without the cooling tower blowdown) lower than those identified in Table 4.

Table 4: Daily Wastewater Flow Characteristics, GPD (includes cooling tower blowdown)

Description	Jan 2017 through April 2022*	May 2021 through April 2022
Maximum Day	104,818	104,818
Maximum 2-day Average	99,991	99,991
Maximum 3-day Average	97,421	97,421
Maximum 5-day Average	93,357	93,357
Maximum 7-day Average	91,474	91,474
Maximum 14-day Average	87,882	87,882
Maximum Month	80,525	80,525
Average	49,521	68,050

*Not including April 2017

Table 5: Daily Wastewater Flow Characteristics, GPD (excludes cooling tower blowdown)

Description	Jan 2017 through April 2022*	May 2021 through April 2022
Maximum Day	94,585	94,585
Maximum 2-day Average	89,758	89,758
Maximum 3-day Average	87,188	87,188
Maximum 5-day Average	83,124	83,124
Maximum 7-day Average	81,241	81,241
Maximum 14-day Average	77,649	77,649
Maximum Month	70,292	70,292
Average	39,288	57,817

*Not including April 2017

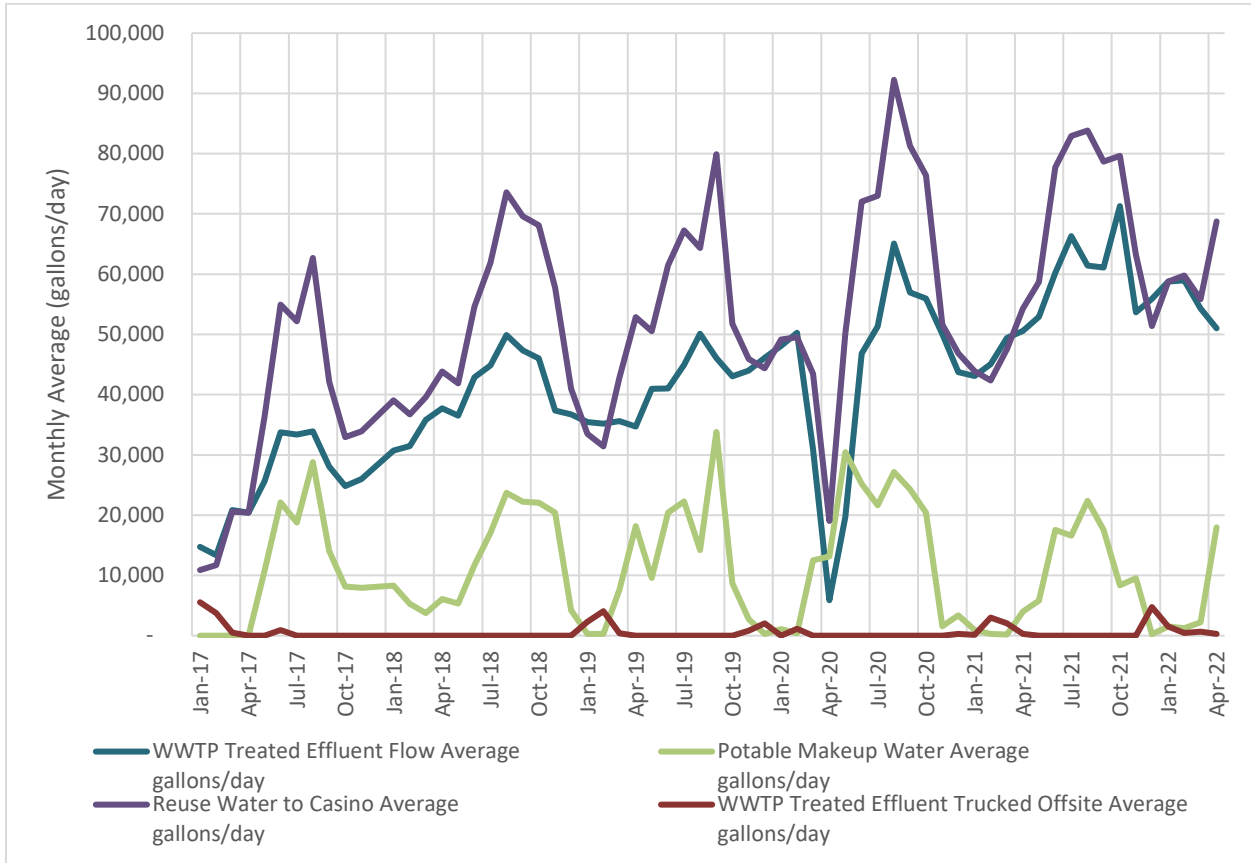
** Cooling tower wastewater = 10,233 gpd from original WWTP design

2.2.2 Wastewater WWTP Effluent Flow and Reuse Water

Daily wastewater WWTP flow and reuse water data from January 2017 through April 2022 (except for April 2017) from the WWTP was evaluated and average monthly flows are graphically displayed in Figure 4 (below). The figure depicts the monthly average flows over the time period for the WWTP Treated Effluent Flows, the Potable Water Makeup, Reuse Water Supplied, and the Treated Effluent trucked off-site for disposal. The Reuse Water Supplied (recycled water) is supplied from the WWTP Treated Effluent Flows and when required was supplemented with potable water - Potable Water Makeup –to meet reuse water demands. When the recycled water demands were less than the treated effluent from the WWTP, the treated effluent was trucked off-site for disposal (no treated effluent was discharged using the Tribe’s NPDES Permit). The formulae used for Reuse Water Supplied is as follows:

$$\text{“Reuse Water Supplied”} = \text{“WWTP Treated Effluent Flows”} + \text{“Potable Water Makeup”} - \text{“Treated Effluent Trucked Off-site”} - \text{“Effluent Discharge by NPDES Permit to Willow Creek”}$$

Figure 4: Historical WWTP Effluent and Water Reuse Average Monthly Flows



The figure shows an increasing trend for the average monthly flows for treated effluent and for water reuse similar to the WWTP wastewater influent flows (displayed in Figure 3). The flow decreased during the COVID-19 lockdown (March through May 2020) but then returned to “normal.” Additionally, the summer and early fall (warmer months) have higher flows than the winter (cooler) months also similar to the WWTP wastewater influent flows (displayed in Figure 3). This is likely partially attributable to cooling tower usage. The figure shows potable makeup water supplied was also higher during summer and early fall (warmer months) when recycle water demand was high. During the winter months when water reuse demand was lower, not all of the WWTP treated effluent was able to be utilized for reuse and the excess treated effluent was required to be trucked off-site for disposal.

2.2.3 WWTP Waste Disposal

Daily Trucking Off-site data from January 2017 through April 2022 (except for April 2017) from the WWTP was evaluated and tabulated in Table 6 (below). The table identifies the yearly total waste and effluent volumes trucked off-site for disposal, the days when waste or effluent was trucked off-site for disposal, and the number of loads (~4,200 gallons per truck load) of waste or effluent trucked off-site. The data identified that the total volume of waste trucked off-site for disposal increased yearly with the exception of 2020 (related to decrease wastewater flows to the WWTP due to COVID-19 lockdown).

Note: As previously stated, there has been no discharge of treated effluent to the Creek from the WWTP. Thus, the NPDES permit for the WWTP has not been utilized – all treated effluent not utilized for reuse was trucked off-site for disposal

Table 6: WWTP Waste and Effluent Trucked Off-Site for Disposal

Yearly Trucked Off-site Totals																
Year	Number of Days	Brine Waste			Activated Sludge			Domestic Waste			Treated Effluent			Total Trucked Off-site		
		TOTAL (gallons)	Days of Waste Trucked Off-site	Loads of Waste Trucked Off-site ¹	TOTAL (gallons)	Days of Waste Trucked Off-site	Loads of Waste Trucked Off-site ¹	TOTAL (gallons)	Days of Waste Trucked Off-site	Loads of Waste Trucked Off-site ¹	TOTAL (gallons)	Days of Waste Trucked Off-site	Loads of Waste Trucked Off-site ¹	TOTAL (gallons)	Total Loads Trucked Off-site ¹	Monthly Average Loads Trucked Off-site ¹
2017 ²	335	1,945,530	187	467	197,400	29	48	12,200	2	3	320,700	25	77	2,475,830	595	54.09
2018	365	2,447,700	224	583	478,800	63	114	8,400	2	2	-	0	0	2,934,900	699	58.25
2019	365	2,335,200	232	556	537,600	87	128	35,800	9	9	285,600	47	68	3,194,200	761	63.42
2020	366	2,087,400	224	497	562,800	95	134	25,200	6	6	42,000	7	10	2,717,400	647	53.92
2021	365	2,461,200	244	586	659,400	112	157	63,000	12	15	306,600	38	73	3,490,200	831	69.25
2022 ³	120	886,200	84	211	176,400	41	42	16,800	4	4	88,200	9	21	1,167,600	278	69.50

¹ Truck Load (volume) is 4,200 gallons

² Not including April 2017

³ Totals for January to April

2.3 Wastewater Estimated Future Demands

Wastewater flows for the Casino Hotel and Event Center Project were projected based on typical flow factors for hotel rooms and facility uses taken from the City of Los Angeles Sewage Generation Factors Chart, and professional experience. The projected wastewater flows represent a full occupancy and expected maximum daily flow are shown in Table 7.

Table 7: Projected Casino Hotel and Event Center Project Water Requirements & Wastewater Generation

Location			Guest Room/Seating Quantity	Area (SQFT)	Demand Factor	Unit	Water Usage (GPD)	Wastewater Generation (GPD)
Event Center	Casino	New Event Venue Outdoor	-	25,500	350	GPD/KSF	8,925	8,925
		Multipurpose/Bingo Hall	-	9,250	350	GPD/KSF	3,238	3,238
		Cooling Tower ~5% increase in Indoor sqft from Bingo Hall requires associated 5% increase in Cooling Demand	-	-	-	-	1,536	512
		Casino Expansion Total		34,750			13,699	12,675
Hotel	Hotel	Guest Rooms (Total Buildout)	225	-	120	GPD/ROOM	27,000	27,000
		Mechanical Equipment	-	18,557	30	GPD/KSF	557	557
	Hotel Lobby And Management	Hotel Lobby	-	6,552	50	GPD/KSF	328	328
		Front Desk & Administration	-	1,956	50	GPD/KSF	98	98
	Food & Beverage	Dining One ¹	92	6,724	30	GPD/Seat	2,760	2,760
		Banquet Dining ¹	187	5,180	30	GPD/Seat	5,610	5,610
		Speakeasy ²	49	1,242	720	GPD/KSF	894	894
		F&B Storage	-	1,173	30	GPD/KSF	35	35
	Recreation	Spa	-	8,600	250	GPD/KSF	2,150	2,150
		Fitness Center	-	900	650	GPD/KSF	585	585
		Pool ³	-	3,000	-	-	1,547	329
	Building Services	Pool Support	-	11,608	200	GPD/KSF	2,322	2,322
		Hotel Storage	-	1,116	30	GPD/KSF	33	33
		Laundry and Housekeeping	-	1,461	50	GPD/KSF	73	73
	Hotel Total (without Cooling Towers)		68,069			43,991	42,773	
Totals	Total (without Hotel Cooling Towers)						57,690	55,448
	Hotel Cooling Towers	Cooling Tower	-	-	-	-	11,250	5,625
	Total (with Hotel Cooling Towers)						68,940	61,073
Notes: GPD Gallons Per Day SQFT Square Foot KSF 1000 Square Foot 1 Utilized Demand Factor for Seating in the Analysis - higher Wastewater Generation 2 Utilized Demand Factor for Area in the Analysis - higher Wastewater Generation 3 Pool Water Usage includes evaporation and blowdown (GPD)								

The projected future daily wastewater influent flows to the WWTP are displayed in Table 8 and are based on the wastewater flows from May 2021 through April 2022 identified in Table 5, and the Casino Hotel and Event Center Project projected wastewater influent flows identified in Table 7. The totals with cooling tower blowdown discharged to the WWTP for treatment and also with no cooling tower blowdown (cooling tower blowdown treated at the cooling tower and discharged directly to the Brine Storage Tank to be trucked off-site for disposal) are identified in Table 8.

Table 8: Projected Wastewater Generation

Description	No Cooling Tower Blowdown			Including Cooling Tower Blowdown	
	Existing Casino, ^a gpd	Proposed Hotel and Event Center Project, gpd	Total Wastewater Flow, gpd	Total Cooling Blowdown, ^b gpd	Total Flow, gpd
Maximum Day	94,585	55,448	150,033	16,370	166,403
Maximum Average 2-day	89,758	55,448	145,206	16,370	161,576
Maximum Average 3-day	87,188	55,448	142,636	16,370	159,006
Maximum Average 5-day	83,124	55,448	138,572	16,370	154,942
Maximum Average 7-day	81,241	55,448	136,689	16,370	153,059
Maximum Average 14-day	77,649	55,448	133,097	16,370	149,467
Maximum Month	70,292	55,448	125,740	16,370	142,110
Average	57,817	55,448	113,265	16,370	129,635

a) Based on May 2021 through April 2022 Flows

b) Cooling tower blowdown = 10,233 gpd (Casino - from original WWTP design) + 512 gpd (Casino 5% increase in cooling demand due to 5% increase in indoor space [Bingo Hall] requiring cooling) + 5,625 gpd (hotel) = 16,370 gpd

Based on the wastewater flows from May 2021 through April 2022 and the wastewater flows projected from the Hotel and Event Center Project, the future daily wastewater flows to the WWTP are projected as follows:

- Maximum daily flow of 166,403 gpd (150,033 gpd without cooling tower blowdown);
- Maximum month average flow of 142,110 gpd (125,740 gpd without cooling tower blowdown); and
- Yearly average flow of 129,635 gpd (113,265 gpd without cooling tower blowdown).

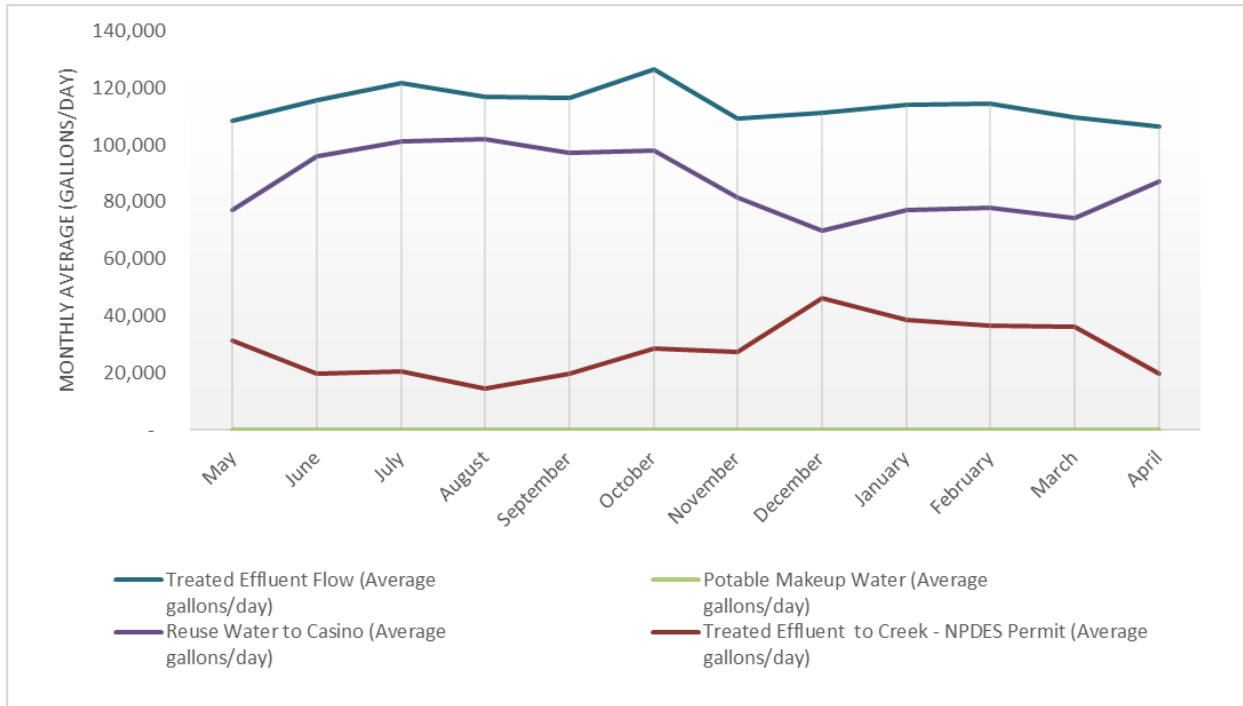
The projected reuse water and the projected treated effluent that may be required to be discharged to the Creek using the Tribe’s NPDES permit are displayed in Table 9 and Figure 5. These estimates are based on the historical flows from May 2021 through April 2022 and the projected increase in treated effluent and reuse water requirements from Section 3.3.

Table 9: Projected WWTP Treated Effluent Flows, Potable Makeup Water, Reuse Water, & Treated Effluent Discharge

Month	Historical Data ¹				Projected Increase			Future Estimate			
	Treated Effluent Flow	Potable Makeup Water	Reuse Water to Casino	Treated Effluent Trucked Offsite	Treated Effluent Flow ²	Reuse Water to Casino	Net Increase in Treated Effluent (to be used in lieu of potable water for reuse or discharged)	Treated Effluent Flow	Potable Makeup Water	Reuse Water to Casino	Treated Effluent to Creek - NPDES Permit
	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)
	A	B	C=A+B-D	D	A1	C1	E=A1-C1	A2=A+A1	B2=C2-A2 (value 0 if negative)	C2=C+C1	D2=A2-C2 (value 0 if negative) Also D2=E-B
May	52,910	5,805	58,715	-	55,448	18,336	37,112	108,358	0	77,051	31,307
June	60,198	17,544	77,741	-	55,448	18,336	37,112	115,646	0	96,077	19,568
July	66,284	16,619	82,903	-	55,448	18,336	37,112	121,732	0	101,239	20,493
August	61,422	22,413	83,834	-	55,448	18,336	37,112	116,870	0	102,170	14,699
September	61,117	17,564	78,681	-	55,448	18,336	37,112	116,565	0	97,017	19,548
October	71,296	8,352	79,648	-	55,448	18,336	37,112	126,744	0	97,984	28,760
November	53,680	9,560	63,240	-	55,448	18,336	37,112	109,128	0	81,576	27,552
December	55,896	217	51,372	4,742	55,448	18,336	37,112	111,344	0	69,708	46,379
January	58,769	1,490	58,768	1,490	55,448	18,336	37,112	114,217	0	77,104	38,603
February	58,960	1,254	59,765	450	55,448	18,336	37,112	114,408	0	78,101	36,758
March	54,317	2,220	55,860	677	55,448	18,336	37,112	109,765	0	74,196	36,247
April	51,006	17,998	68,724	280	55,448	18,336	37,112	106,454	0	87,060	19,674

1 Based on May 2021 through April 2022 Flows
2 Assumed to be same as the projected wastewater generation from Table 7

Figure 5: Projected Future WWTP Effluent and Water Reuse Average Monthly Flows



The volume of reuse water required for the Casino Hotel and Event Center Project is not projected to increase significantly - 18,366 gpd (refer to Section 3.3 for recycled water demand details) - compared to the overall increase in influent wastewater flows - 55,448 gpd - to the WWTP. The net increase in excess wastewater flows that would not be reused as recycled water by the proposed Hotel and Event Center Project is 37,112 gpd as identified in Table 9. This net increase will be required to be used as recycled water for the existing Casino demand, trucked off-site, or discharged to the Creek using the Tribe's NPDES permit.

The portion of the net increase of excess wastewater flows that can be used as recycled water for the existing Casino demand will be the volume used to offset potable makeup water that was historically used to supplement the treated effluent shortfalls. The historical monthly average daily volume of potable makeup water that was utilized as recycled water, as identified in Table 9, ranged from 217 to 22,413 gpd (utilizing the period from May 2021 to April 2021) with the higher potable makeup water demand in the summer months and lower potable water demands in the winter months. The resulting future estimated potable makeup water demand is "0" gpd (no potable makeup water is projected to be added) with the excess treated wastewater flows supplying its demand as recycled water. The remainder of the net increase of excess wastewater flows not being used in lieu of potable makeup water will be required to be discharged to the Creek using the Tribe's NPDES permit (maximum 68,000 gpd). The future estimate of the monthly average gpd of treated effluent that will be required to be discharged to the Creek will also include the historical volume of treated effluent that has been trucked off-site for disposal. The future monthly average gpd of treated effluent to be discharged to the Creek using the Tribe's NPDES permit is estimated to range from 14,699 gpd to 46,379 gpd with the higher discharges in the summer months and the lower discharges in the winter months.

The total volume of waste trucked off-site for disposal will also increase as identified in Table 10 below. Based on approximately doubling of the yearly average flows to the WWTP (57,817 gpd to 113,265 gpd as identified in Table 8), the Brine Waste, Activated Sludge, and Domestic Waste are projected to increase proportionally to the increase in flows essentially doubling. The treated effluent flows from the WWTP will be utilized for reuse or will be discharged to the Creek using the Tribe's NPDES permit (it is projected that it will not be trucked off-site for disposal). Thus, the total annual volume and truck loads of waste hauled off-site are projected to increase from 3,490,200 gallons per year and 831 truck loads per year (~69 loads per month) to an estimated volume of 6,236,755 gallons per year and 1,485 truck loads per year (~124 loads per month).

Table 10: Projected Future WWTP Waste and Effluent Trucked Off-site for Disposal

Year	Brine Waste		Activated Sludge		Domestic Waste		Treated Effluent		Total Trucked Off-Site	
	Total (gallons)	Total Loads Trucked Off-site	Total (gallons)	Total Loads Trucked Off-site	Total (gallons)	Total Loads Trucked Off-site	Total (gallons)	Loads of Waste Trucked Off-site	Total (gallons)	Total Loads Trucked Off-site
	A	A1	B	B1	C	C1	D	D1	E=A+B+C+D	E1=A1+B1+C1+D1
Historical Data (2021) ¹	2,461,200	586	659,400	157	63,000	15	306,600	73	3,490,200	831
Future Estimate ²	4,821,555	1,148	1,291,782	308	123,419	29	0 ³	0 ³	6,236,755	1,485
Net Change for Proposed Project	2,360,355	562	632,382	151	60,419	14	-306,600	-73	2,746,555	654

1 Based on 2021 Trucked Off-site Totals.

2 Future Estimate Total is projected based on WWTP yearly average daily influent flow increasing from 57,817 gpd in 2021 to 113,265 gpd (~1.96 times the 2021 value) in the future with no cooling tower blowdown and with all treated effluent not used for reused discharged to Willow Creek using the NPDES Permit.

3 Future Estimate Total assumes all treated effluent not used as a source for recycled water will be discharged to Willow Creek using the NPDES Permit. Thus, no ("0") Loads of Treated Effluent are projected to be Hauled Off-site.

2.4 Wastewater Recommendations

The wastewater recommendations are as follows:

1. The existing WWTP does not have design capacity to treat the current and projected increases in influent wastewater flows from the new Casino Hotel and Event Center Project. The future influent wastewater flows to the WWTP are approximately double of the design flows for the facility. The existing WWTP is designed for an average wastewater flow of 68,000 gpd and the future maximum month average flow is projected to be ~141,086 gpd (125,228 gpd without cooling tower blowdown) and the maximum daily flow is projected to be 165,379 gpd (149,521 gpd without cooling tower blowdown).

Thus, an upgrade to the WWTP has been planned to increase the capacity of the of the current facility to meet current and projected increases wastewater flow requirements from the Casino Hotel and Event Center Project . The upgraded WWTP will increase the design average daily flow from 68,000 gpd to 150,000 gpd and will be designed to treat the wastewater to meet the Department of Drinking Water (DDW) Title 22 standards for disinfected tertiary recycled water and to meet the Tribe's NPDES permit requirements. This will enable the Casino to reuse the recycled water for irrigation purposes, toilet flushing, and as a water source for the cooling towers. Additionally, this will enable excess treated wastewater not used for recycling to be discharged to the Willow Creek within the Reservation utilizing the Tribe's NPDES permit if it is not trucked off-site for disposal.

The upgrade to the WWTP processes required to accommodate the new design flows will require installation of new tankage and equipment. Not all of this equipment and tankage will be able to be located in the existing WWTP building and will be required to be installed in a new location/treatment room. The key processes that will remain and be expanded/upgraded in the existing WWTP building are the Biological (Aerobic/Anoxic) Treatment System, Clarification (MBR) System, and Sludge Processing System designs that require the aeration basins, blowers, and associated equipment and instruments. The upgrade for these systems will require repurposing of the below grade Effluent Storage Tank beneath the WWTP existing building to provide the location for a new Aeration Basin (increasing the quantity of basins from 2 to 3) associated with the Biological (Aerobic/Anoxic) Treatment System and to expand the Digester Basin associated with the Sludge Processing System.

A new Wastewater Treatment Room is planned to be constructed west of the existing WWTP Building in the first-floor most southern bay of the parking structure associated with the new Casino Hotel to accommodate the processes and tankage that will not be able to be located in the existing WWTP Building - due to insufficient space (processes downstream [or after] of the Clarification (MBR) System process). The tankage and processes are as follows: TDS Removal Systems, Disinfection and odor Control Systems, Recycled Water Pumping System, Dichlorination System, Wastewater Cooling System, Brine Storage System (below grade tank and pumping system), and Off-Specification Storage System (below grade tank and pumping system). A new Effluent Water Storage Tank for storing treated wastewater for the recycled water system is planned to be installed beneath (below grade) the first-floor bay of the parking structure adjacent (north) to the new Wastewater Treatment Room.

Additionally, to increase the capacity of the WWTP, the cooling tower blowdown is planned to be treated at the cooling towers utilizing a Reverse Osmosis (RO) System for TDS removal similar to the RO Systems used at the WWTP and, thus, the blowdown will not be discharged as a part of the wastewater flows to the WWTP for treatment. The treated water from the new cooling tower RO treatment system will be used as makeup water for the cooling tower and the waste stream – brine waste - from the treatment system will be discharged to the Brine Storage Tank at the WWTP and will be trucked off-site for disposal.

2. The WWTP has not historically discharged tertiary treated wastewater effluent to the Creek utilizing the Tribe's NPDES permit (maximum 68,000 gpd). With the increase of wastewater flows to the WWTP, not all of the treated wastewater will be able to be utilized as reuse water and, therefore, excess treated wastewater would be discharged to the Creek utilizing the Tribe's NPDES permit. The monthly average volumes to be discharged is estimated to range from 14,699 gpd to 46,379 gpd with the higher discharges in the summer months and the lower discharges in the winter months (refer to Table 9 for details). Note: The current NPDES permit is in the process of being extended.
3. The volume of waste and number of truck loads required to haul WWTP waste off-site for disposal is projected to increase from 3,490,200 gallons per year and 831 truck loads per year (~69 loads per month) to an estimated volume of 6,236,755 gallons per year and 1,485 truck loads per year (~124 loads per month). These quantities assume the treated effluent flows from the WWTP will be utilized for reuse or will be discharged to the Creek using the Tribe's NPDES permit – this assumes that treated effluent will not be trucked off-site for disposal. If the NPDES permit is not utilized, the number of loads trucked off-site will be greater. To accommodate the increase in trucking demand, an additional truck is recommended to supplement the existing truck to haul waste off-site for disposal.

3.0 WATER

3.1 Water Supply

The Jamul Casino receives its water supply from the Otay Water District (OWD), which is a publicly owned retail water and sewer agency serving a 125.5 square mile portion of southern San Diego County. OWD's boundaries encompass a large portion of eastern Chula Vista, a portion of the city of San Diego on Otay Mesa, and various unincorporated areas, including Rancho San Diego, Jamul, Spring Valley, Bonita, Otay Mesa, and areas adjacent to El Cajon and La Mesa.

The OWD provides water service to almost all of the area within its boundaries, encompassing approximately 200,000 residents and making the OWD the second largest water purveyor by population in San Diego County. OWD was authorized as a California Special District by the State Legislature in 1956, under the provisions of the Municipal Water District Code.

The OWD has a 12-inch water main in Campo Road that supplies water to the Jamul Casino through a 12-inch lateral on the east side of the property (Refer to Appendix A, OWD Capacity Determination Letter - Jamul Casino Hotel_APN 597-060-06-00_5-11-22).

3.2 Water Historical Usage

The water usage for the Jamul Casino for 2021 and 2022 (through March) has been tabulated and is summarized in Table 11 (below). The average water usage for the period is 30,383 gpd with a minimum usage of 22,576 in January 2022 and a maximum usage of 46,197 in August 2021. The higher water usage is in the summer (hotter) months where potable water was used as makeup water to supplement the WWTP treated effluent wastewater as sources for recycled water (see Figure 4, Section 2.2.2)

Table 11: Jamul Casino - Historical Water Usage (2021 – 2022 through March)

Year	Month	Billing Period (Days)	Service From	Service To	Usage (HCF)	Usage (Gallons)	Avg. Daily Use (GPD)- Calculated
2021	January	33	12/10/2020	1/12/2021	1,100	822,800	24,933
	February	28	1/13/2021	2/9/2021	848	634,304	22,654
	March	28	2/10/2021	3/9/2021	887	663,476	23,696
	April	30	3/10/2021	4/8/2021	994	743,512	24,784
	May	33	4/9/2021	5/11/2021	1,263	944,724	28,628
	June	28	5/12/2021	6/8/2021	1,067	798,116	28,504
	July	31	6/9/2021	7/9/2021	1,705	1,275,340	41,140
	August	32	7/10/2021	8/10/2021	1,848	1,382,304	43,197
	September	30	8/11/2021	9/10/2021	1,718	1,285,064	42,835
	October	33	9/11/2021	10/13/2021	1,639	1,225,972	37,151
	November	27	10/14/2021	11/9/2021	998	746,504	27,648
	December	30	11/10/2021	12/9/2021	1,292	966,416	32,214
2022	January	33	12/10/2021	1/11/2022	996	745,008	22,576
	February	28	1/12/2022	2/8/2022	980	733,040	26,180
	March	28	2/9/2022	3/8/2022	1,108	828,784	29,599
				Min	848	634,304	22,576
				Max	1,848	1,382,304	43,197
				Avg	1,230	919,691	30,383
				Total	18,443	13,795,364	455,739

HCF - hundred cubic feet

GPD - gallons per day

The Jamul Casino utilizes recycled water at the property for irrigation purposes, toilet flushing, and as a water source for the cooling tower. The water is primarily supplied from the WWTP treated effluent that meets or exceeds DDW Title 22 standards for disinfected tertiary recycled water. The recycled water is also supplemented with potable water to meet recycled water demands on the property. Table 9 and Figure 5, Section 2.2.3, displays the recycled water utilized historically at the property and the contribution of WWTP treated effluent and potable water utilized to meet the demand. The historical monthly average daily volume of recycled water supplied to the Casino ranged from 51,372 gpd to 83,834 gpd (from May 2021 to April 2021) with the higher potable makeup water demand in the summer months and lower potable water demands in the winter months. Potable makeup water was used as a supplemental source

for recycled water during this period that ranged from 217 gpd to 22,413 gpd with the higher potable makeup water demand in the summer months and lower potable water demands in the winter months, similar to the recycled water that was supplied during the winter and summer months.

3.3 Water Estimated Future Demand

Water demands for the Casino Hotel and Event Center Project were projected based on typical flow factors for hotel rooms and facility uses taken from the City of Los Angeles Sewage Generation Factors Chart, and professional experience. These water demands estimates are documented in in Table 7, Section 2.3. The projected water demand for the Casino Hotel and Event Center is 57,690 gpd and with the addition of a Hotel Cooling Tower the demand is 68,940 gpd. This new demand is in addition to the current monthly average demand of 30,383 gpd and the maximum monthly average demand identified in Table 11, Section 3.2. The combined future monthly average demand is 88,073 gpd (maximum monthly average 100,887 gpd) and with the addition of a Hotel Cooling Tower, the monthly average demand is 99,323 gpd (maximum monthly average 112,137 gpd) as identified in Table 12 below. Note: These values assume that there are no new recycled water requirements related to the new Hotel and Casino Event Center where reuse water could be used instead of potable water.

Table 12: Projected Future Potable Water Demand

Historical Potable Water Usage ¹	New Demand for Potable Water ²		Projected Future Potable Water Demand (assuming no new reuse water requirements Hotel and Casino Event Center)		Projected Increase in Reuse Water To Be Used Versus Potable Water Requirement for the Hotel and Casino Event Center							Projected Future Potable Water Demand (new reuse water requirements Hotel and Casino Event Center supplied by Recycled Water System)	
	Less Hotel Cooling Tower	With Hotel Cooling Tower	Less Hotel Cooling Tower	With Hotel Cooling Tower	Toilet Flushing (Hotel)	Toilet Flushing (Casino)	Cooling Demand (Casino)	Total Projected Increase in Reuse Without Hotel Cooling Tower	Cooling Demand (Hotel)	Total Projected Increase in Reuse With Hotel Cooling Tower	Less Hotel Cooling Tower	With Hotel Cooling Tower	
(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	(Average gallons/day)	
A	B	B1	C=A+B	C1=A+B1	D1	D2	D3	E=D1+D2+D3	D4	F=E+D4	G=C-E	H=C1-F	
Monthly Average	30,383	57,690	68,940	88,073	99,323	1,900	3,650	1,536	7,086	11,250	18,336	80,987	80,987
Maximum Monthly Average	43,197	57,690	68,940	100,887	112,137	1,900	3,650	1,536	7,086	11,250	18,336	93,801	93,801

¹ Based on historical water usage data from January 2021 to March 2022 - Table 9
² Based on projected water demand - Table 7

The recycled water requirements for the new Hotel and Casino Event Center are projected to increase by approximately 18,336 gpd as identified in Table 11 above. The increase is attributable to: ~1,900 gpd for toilet flushing at for the Hotel (estimate of 4 flushes per occupied room per day for guests and ~2.6 flushes per occupied room per day for staff, at 1.28 gallons per flush with a total of 225 rooms), ~ 3,650 gpd for toilet flushing at for the Casino Event Center (estimate 30% of the Water Usage Requirements for the Casino Event Center – Table 7); ~1,536 gpd for cooling demand for the Casino Event Center (Table7); and approximately 11,250 gpd for the New Hotel cooling tower (refer to Table 7). The projected future water potable water demand is 80,987 gpd (90.7 acre-foot per year) based on the monthly average due to the reduction of potable water demand being filled by reuse water for areas in the new Hotel and Casino Event Center that can utilize recycled water.

The future estimated reuse water demand (identified in Section 2.3, Table 9 and Figure 5) ranges from 69,708 gpd to 102,170 gpd with the higher demands generally in the summer months and the lower demands in the winter months.

3.4 Water Recommendations / Requirements

A request to OWD was submitted to determine their ability to supply projected future water demands to the expanded Jamul Casino. The request was submitted early in the water assessment process when projected demands were significantly higher (~180,000 gpd) than the current projected maximum volume (80,987 gpd). The OWD identified in their response (Appendix A: Appendix A, OWD Capacity Determination Letter – Jamul Casino Hotel_APN 597-060-06-00_5-11-22) that they have no objection to serving the project site with the requested volume of water. They also stated that the Jamul Casino Hotel and Event Center Project can be served by the existing 12-inch potable water main on Campo Road that extends through a 12-inch lateral onto the Jamul Casino property. The existing service for the Jamul Casino is through a 4-inch potable water meter (maximum flow 800 gpm) connected to the 12-inch lateral.

The potable water supply for the new Hotel is planned to be from OWD's existing 12-inch lateral and existing 4-inch water meter that is used to supply potable water to the Jamul Casino (as identified above).

APPENDIX A



...Dedicated to Community Service

2554 SWEETWATER SPRINGS BOULEVARD, SPRING VALLEY, CALIFORNIA 91978-2004
TELEPHONE: 670-2222, AREA CODE 619 www.otaywater.gov

May 11, 2022

Sent via email to: vreddy@eecenvironmental.com

Project No.: P1438-010000

Activity: 3111

Varshini Reddy
EEC Environmental
One City Boulevard West, Suite 1800
Orange, CA 92868

Subject: Jamul Casino Hotel
Project Description: Remodel existing Jamul Casino to include a new event center and 226 room hotel
Address: 14145 Campo Road, Jamul, CA 91935
APN: 597-060-06-00

Dear Mr. Reddy:

The Otay Water District ("District") has no objection to the subject Project ("Project"). As provided to the District, the Project consists of one (1) parcel totaling 4.03 acres for the proposed Jamul Casino new event center and hotel. The Project can be served by an existing 12-inch potable water main on Campo Road.

The Project site is currently served by one 4.0-inch potable water meter 800 GPM maximum. If any modifications to the existing water systems are proposed, the developer will be required to submit improvement plans for District approval and pay all fees, including plan review, inspection, water meter installation, and capacity fees prior to any work. The developer will be required to confirm that the new Project water demands can be served by the existing meters. If service laterals do not exist for the Project, the developer must pay to have the District install them.

The developer must comply with Section 62.01 of the District's Code of Ordinances, "To provide for future line extensions, pipelines installed within public streets must be constructed to the subdivision boundary and pipelines not installed within a public street must be installed in a District easement or right-of-way and must extend across the frontage of the parcel or parcels to be served."

Varshini Reddy

Project Description: Remodel existing Jamul Casino to include a new event center and 226 room hotel

May 11, 2022

Page 2 of 2.

When a customer requests water service on a parcel of land with potable irrigated landscape equal to 5,000 square feet or more, a separate meter will be required for irrigation purposes on the site.

Fire service plans must be designed to Water Agencies' Standards. Each service must have an approved reduced pressure principal backflow prevention device (R/P) purchased and installed by the developer after District review and approval. The developer should contact the Project's fire agency for any fire protection requirements and determine early on how the fire protection requirements can be met from the existing pressure zone.

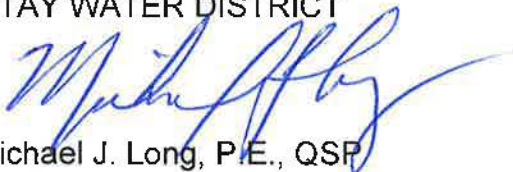
The fire service line will not be allowed to be connected to any buildings; the line will be intended for fire services purposes only. Failure to comply with this request will result in violation of the District's Code of Ordinances and will be subject to penalties determined by the District. Water furnished for fire hydrant or fire sprinkler service shall be used only for fire protection purposes and shall be connected to a District water main. Where service is provided for a fire hydrant or fire sprinkler service on privately-owned land, the service shall be provided by the District at the property line of land to be served.

Water availability is subject to all District requirements in effect at the time and you are strongly encouraged to adopt water conservation measures throughout the development.

The District's Engineering Public Services Division can be contacted at (619) 670-2241 or visit the website at <http://otaywater.gov/engineering-services/public-services/> for further requirements regarding inspection services, water main extensions, service laterals, backflow devices, and meter costs. Also, visit the District's website at www.otaywater.gov/code-of-ordinances for sections pertaining to the Project and any other conditions that may have arisen since this letter was written for this Project.

Sincerely,

OTAY WATER DISTRICT



Michael J. Long, P.E., QSP
Engineering Manager

MJL:jf



Casino Jamul- Hotel

5970600800

5970600200

5970700600

5970700200

5970600600

91935

5970600700

205

204

5970800500

5970800400

5970800600

5970800800

5970800700

MAP: 205
AB: 117-09
ID: 22
Pzone: 1296

Existing 4" Potable
Meter#

Existing 12" Potable
Water Main

Peaceful Valley Ranch Rd

Campo Rd

Highway 94

PEACEFUL WALL

Project Location

Jamul Casino- 14145 Campo Rd, Jamul, CA-91935



Project Description

The Proposed Project consists of remodeling the existing Jamul Casino to include a new event center and 226-room hotel. The proposed remodeling would eliminate the second and fourth floors of the existing Casino building and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation. The existing restaurant located on the second floor of the casino building would be relocated to the third floor with no changes in occupant capacity. Existing office space on the eastern portion of the third floor would be relocated to an expanded area of the western portion of the third floor. The new event venue would result in a net increase of approximately 35,000 sf of enclosed, covered outdoor, and uncovered outdoor areas. No expansion of the gaming floor or increase in the number of slot machines or table games are proposed.

The new hotel and associated parking structure would be located west of the existing casino building with access to the casino building provided through a new pedestrian bridge and new vehicular bridge over Willow Creek, which bisects the Jamul Reservation immediately west of the existing casino building. The new 226-room hotel would consist of 16 stories including 3 levels of back-of-house, a hotel lobby level with approximately 4,800 sf restaurant, a spa level with outdoor deck, 10 levels of guest rooms, and a rooftop pool deck. The new four-story parking structure would be located south of the new hotel building and would connect to the hotel lobby, the eastern portions of the upper two stories would be constructed over the existing wastewater treatment plant. The existing tribal community center and fire station would be demolished to accommodate the footprint of the new hotel and parking structure.



Water Consumption Estimate

An estimate of the likely and expected water consumption of the hotel was undertaken. The two key references for the estimation were (i) City of Ventura- Comprehensive Water Resource Report (May 2021) and (ii) City of LA- CEQA Thresholds Guide (2006). Assuming two persons per room, this works out to 100 GPD per person or 200 GPD per room for total consumption. The estimated water consumption presented in Table are based on the number of bedrooms in the hotel.

	Location		Area (SFT)	Assumed Values	Unit	Water Usage (GPD)
Proposed Hotel Tower						
	Guestroom modules in all levels	226	92,100	200	gpd/room	45200
	SPA level guestroom	13	15,350	300	gpd/ksf	3900
	Rooftop Pool Deck		15,350	100	gpd/ksf	1535
	MEP Transfer		15,350	250	gpd/ksf	3838
	New Event Venue Outdoor		25,500	4	gpd/seat	10200
	Multipurpose/Bingo Hall		9,250	400	gpd/ksf	3700
	Food & Beverage		4,800	700	gpd/ksf	3360
	Lobby		12,995	100	gpd/ksf	1300
	Front Office		3,320	100	gpd/ksf	332
	Parking Level P4		6,150	25	gpd/ksf	154
	Parking Level P5		6,150	25	gpd/ksf	154
	Parking Level P7		6,150	25	gpd/ksf	154
	Pedestrian Bridge		1,770	25	gpd/ksf	44
	Vehicular Bridge		7,550	25	gpd/ksf	189
Proposed Parking						
	Lobby Level Parking P8		39,670	25	gpd/ksf	992
	Parking Level P4		21,376	25	gpd/ksf	534
	Parking Level P5		21,376	25	gpd/ksf	534
	Parking Level P7		39,670	25	gpd/ksf	992
Cooling Towers	Cooling Tower			4.5	gpm/100ton	103680
	Total		343,877			180,791

gpd

Gallons Per Day

gpd/ksf

Gallons Per Day Per 1000 Square Feet

Appendix D

Preliminary Drainage Analysis



PRELIMINARY DRAINAGE STUDY

JAMUL CASINO HOTEL AND EVENT CENTER PROJECT

14145 Campo Road

Jamul, California 91935

Original Submittal Date September 8, 2022

Prepared for:

Acorn Environmental
c/o Bibiana Alvarez
5170 Golden Foothill Parkway
El Dorado Hills, CA 95762

Prepared by:



SAN DIEGUITO ENGINEERING, INC.
Engineering | Surveying | Planning

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P: (858) 345-1149
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SDE Contact Person:

Raymond L. Escobar, RCE #72463
SDE Project Number 5481.13

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DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

BY: RL Escobar DATE: 9/7/22
(Raymond L Escobar)

RCE NO.: 72463 EXPIRES: 06/30/2024



SAN DIEGUITO ENGINEERING, INC.
5911 PALOMAR OAKS WAY, #22
CARLSBAD, CALIFORNIA 92008
PHONE: (858) 345-1149



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Introduction

This preliminary drainage study presents an analysis of the effects that the proposed Jamul Casino Hotel, new garage, and casino improvements may have on the *quantity* and *pattern* of storm water runoff in the local watershed. The purpose of this report is to help fulfill requirements of the Tribal Environmental Impact Report (TEIR). Storm water *quality* for the project is assessed in a memo prepared under separate cover from this document.

This study examines the existing and proposed hydrology of the site and nearby watershed and presents preliminary design engineering recommendations for the project drainage facilities.

Section 1 – Project Information

This section describes the location, activities, and hydrologic setting (watershed, topography, land use, soils and vegetation, drainage patterns, and impervious cover) of the project site.

1.1 Project Description

The Jamul Indian Village of California (Tribe) is proposing to expand its Jamul Casino with the addition of a hotel, event center, additional parking garage, and associated infrastructure. The proposed improvements will be developed on the Tribe's existing Reservation. The existing facility includes a 203,130 sf -square-foot (sf) casino and an eight-level parking garage. The proposed hotel will consist of a total of 16 floors, with 10 floors of guest rooms, roof-top pool, spa, restaurant, and banquet space. The proposed hotel will provide up to 225 rooms and be developed on the west side of the Reservation. An additional parking garage will be located south of the proposed hotel building. The proposed parking garage will have 6 levels and provide 290 parking spaces. The existing tribal community center and administration building currently located on the west side of the Reservation will be relocated to accommodate the footprint of the new hotel and parking structure. The existing casino building will be remodeled to eliminate the second floor (which is a veranda level between the main casino floor and the third floor, and the location of a restaurant) and the fourth floor (currently the rooftop lounge) of the existing Casino building and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation. Other existing dining, office, circulation, and support spaces will be reconfigured or relocated within the Casino, but not expanded. No expansion of the gaming floor or increase in the number of slot machines or table games is proposed.

1.1.1 Project Location

The Reservation consists of approximately six acres of federal trust land located in unincorporated San Diego County, approximately one mile south of the community of Jamul (Figure 1). The Jamul Casino is located on the Reservation at 14145 Campo Road, Jamul, CA 91935. The Reservation is located within



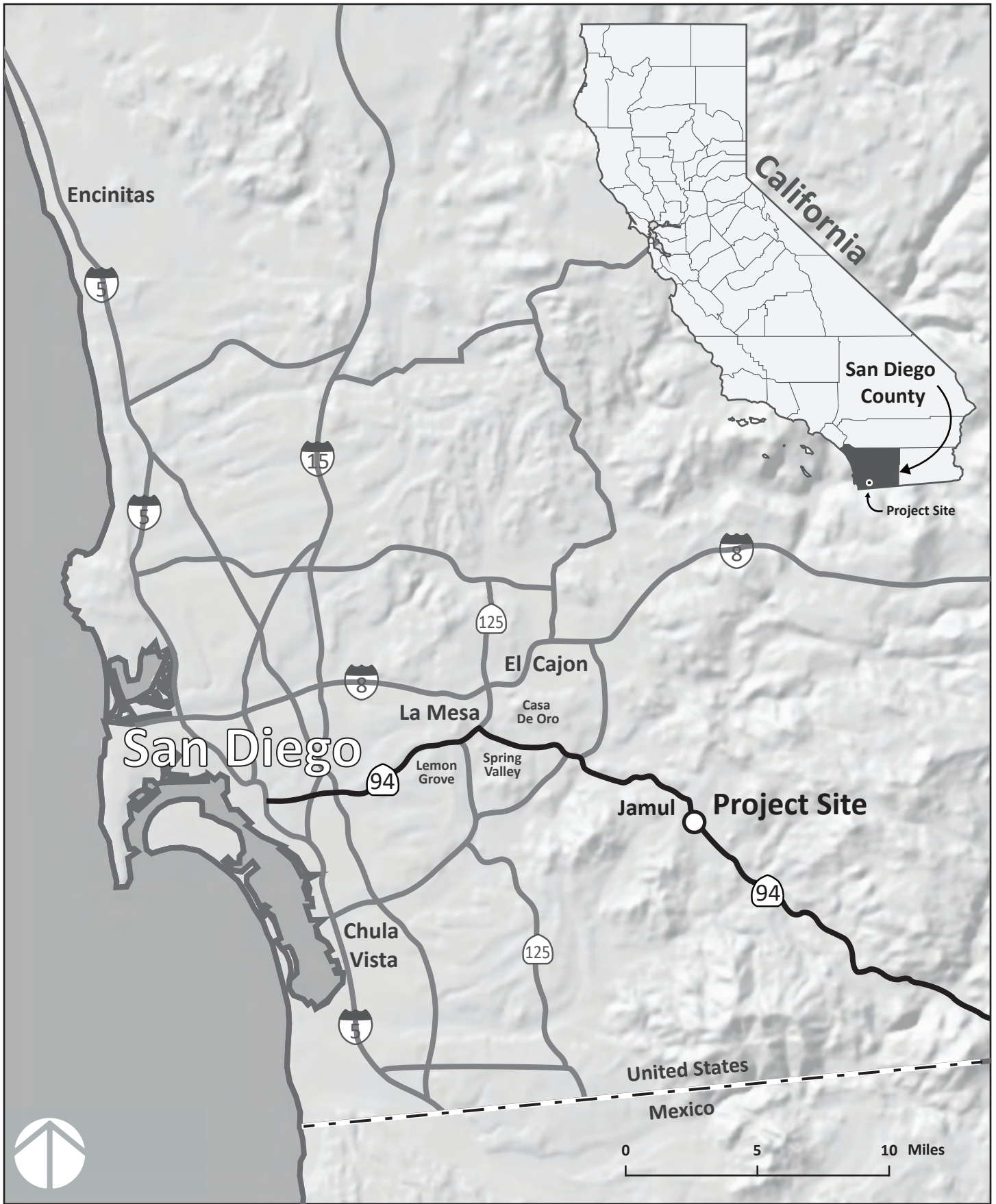


FIGURE 1
REGIONAL LOCATION

portions of Section 10 and unsectioned areas of Township 17 S, Range 1 East, San Bernardino Baseline and Meridian.

State Route 94 (SR 94) provides regional access to the Reservation from downtown San Diego, which is located approximately 20 miles to the west of the Reservation. Local access to the Reservation is provided directly from SR 94 via Daisy Drive and an access road limited to authorized vehicles.

1.1.2 Project Activities Description

The Proposed Project consists of remodeling the existing Jamul Casino to include a new event center, 225-room hotel, and associated parking and infrastructure. Currently, the Jamul Casino occupies four levels above an eight-level parking garage. The main casino floor is the first building floor and there are three floor levels above main casino floor. The second floor is a partial level that provides a restaurant with veranda and allows circulation between the main casino floor and the fourth floor. The third floor provides kitchen and administrative office space. The fourth floor is a partial level that provides a rooftop lounge terrace.

The proposed remodeling would eliminate the second floor and the fourth floor and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation. The existing restaurant located on the second floor of the casino building would be relocated to the third floor with no changes in occupant capacity. Approximately 11,838 sf of existing office space on the eastern portion of the third floor would be relocated to an expanded area of the western portion of the third floor (Figure 2). The new event venue would result in a net increase of approximately 35,000 sf of enclosed, covered outdoor, and uncovered outdoor areas. No expansion of the gaming floor or increase in the number of slot machines or table games is proposed. Table 1 provides a summary of the existing and proposed development.

A new hotel and associated parking structure would be developed west of the existing casino building with pedestrian access to the casino building provided by a new bridge over Willow Creek, which bisects the Reservation immediately west of the existing casino building (Figure 2). The proposed 225-room hotel would consist of 16 stories including a banquet hall (Floor 2), a hotel lobby level with restaurant (Floor 3), a spa level with outdoor deck (Floor 4), 10 levels of guest rooms (Floors 5 through 14), a rooftop pool deck (Floor 16), and 2 levels of back-of-house/mechanical (Floors 1 and 15). The height of the hotel tower would be at an elevation of approximately 1,128 feet above mean sea level (AMSL), which is approximately 225 feet above ground level and 116 feet taller than the existing casino building. A new 6-story parking structure would be developed south of the new hotel building and would connect to the hotel lobby. The existing tribal community center and administration building would be removed to accommodate the footprint of the new hotel and parking structure. There are several options under consideration for relocation of the Tribal administration and community facilities, including utilizing space within the expanded third floor administrative areas of the casino, purchase of an off-site property with an existing building, or leasing existing office space within the region.

Table 1: Existing and Proposed Development

	Existing	Proposed Change	Proposed New Total
Casino			
First Floor	125,850 sf	—	125,850 sf
<i>Casino Floor</i>	68,262 sf	—	68,262 sf
<i>Restaurants/Bars</i>	29,035 sf	—	29,035 sf
<i>Misc. and Circulation</i>	28,553 sf	—	28,553 sf
Second Floor	8,110 sf	(6,907 sf)	1,203 sf
<i>Restaurant/Bars (Loft 94)</i>	248 seats / 4,549 sf	(4,549 sf)	0 sf
<i>Misc. and Circulation</i>	3,561 sf	(2,358 sf)	1,203 sf
Third Floor	60,132 sf	50,983 sf	111,115 sf
<i>Outdoor Event Center</i>	—	25,514 sf	25,514 sf
<i>Bingo Hall</i>	—	9,233 sf	9,233 sf
<i>Restaurant/Bars (relocated Loft 94)</i>	—	248 seats / 7,449 sf	248 seats / 7,449 sf
<i>Office, Misc., and Circulation</i>	60,132 sf	—	60,132 sf
Fourth Floor	9,038 sf	(9,038 sf)	0 sf
<i>Restaurant/Bars (Loft 94 roof deck)</i>	5,604 sf	(5,604 sf)	0 sf
<i>Misc. and Circulation</i>	3,434 sf	(3,434 sf)	0 sf
Total Casino (Floors 1-4)	203,130 sf	35,038 sf	238,168 sf
Hotel			
Guest Rooms		225 rooms	225 rooms
Dining	—	92 seats/6,724 sf	92 seats/6,724 sf
Banquet	—	187 seats/5,180 sf	187 seats/5,180 sf
Bar	—	49 seats/1,242 sf	49 seats/1,242 sf
Rooftop Pool Deck	—	14,608 sf	14,608 sf
Fitness Center	—	900 sf	900 sf
Spa	—	8,600 sf	8,600 sf
Total Hotel	—	16 floors/253,390 sf	16 floors/253,390 sf
Hotel Parking	—	290 spaces/111,415 sf	290 spaces/111,415 sf
Notes: All measurements are approximate; sf = square feet of building area; (x) = reduction in square footage			



Source: JCJ Architecture

FIGURE 2
SITE PLAN

1.1.3 Access

Access to the Reservation is provided directly from SR 94 via Daisy Drive. The intersection of SR 94 and Daisy Drive is a signalized intersection. In the vicinity of the Reservation, SR 94 is a two-lane highway. Dedicated turning lanes are provided on SR 94 at the Daisy Drive intersection. No changes are proposed to the existing off-Reservation roadways and driveways serving the site. Circulation to the proposed hotel and associated parking garage would be provided through extensions to the existing roadway on the Reservation. The existing access road to the chapel and cemetery located west of the Reservation will be preserved.

1.2 Hydrologic Setting

This section summarizes the project's size and location in context of the larger watershed perspective, topography, soil and vegetation conditions, percent impervious area, natural and infrastructure drainage features, and other relevant hydrologic and environmental factors specific to the project area's watershed.

The project site is located in the 98,500-acre Otay Watershed and more specifically within the Jamul Hydrologic Sub-Area (910.33) which is within the Dulzura Hydrologic area. Exhibit A is a Vicinity Map of the local area while Exhibit B illustrates the project site in the context of the watershed.

1.2.1 Topography

The project site is currently developed as described above. The general topography of the existing improvements vary with the majority of the project site draining towards the existing natural drainage channel (Willow Creek) which is parallel to and located about 900 feet west of Campo Road. A small portion of the east side of the property chiefly consists of natural slopes which sheet drain east to Campo Road. Runoff from a portion of the entrance road also drains east towards Campo Road via a biofiltration facility which is located just south of the entrance.

Historical topographic maps indicated that the predeveloped condition of the site consisted of slopes between 4.5% and 16%. With development of the existing casino improvements, the effective slope of the site was reduced. For instance, the looped road around the existing casino generally ranges between 2% and 9% with some smaller sections at even flatter slopes.

1.2.2 Current and Adjacent Land Use

The project site is currently a casino with parking lot area. Other buildings are located on site for office space, community center, church, and utilities. The immediate properties surround the site are undeveloped with the exception of the adjacent Campo Road.

1.2.3 Soil and Vegetation Conditions

The USDA NRCS Web Soil Survey classifies the site as consisting of C and D -type soils. However, the area associated with soil group D is located in the southeast corner of the site where no new grading work will occur related to the proposed remodeling of the existing casino. Exhibit D illustrates the soil types and limits.

The vegetation on the site varies on the west side of the site between Willow Creek and the western property boundary. Willow Creek contains medium to heavy vegetation whereas the areas along the western and eastern slopes are sparsely vegetated.

1.2.4 Existing Drainage Patterns and Facilities

The existing drainage patterns were determined by the available improvement and utility plans for the loop road as well as by a site visit conducted by team staff (August 3, 2022). The available plans provide insight to the existing stormwater improvements constructed as part of the Jamul Casino building, driveways, and associated appurtenances. These stormwater improvements include inlets, storm drain, storage facilities, biofiltration treatment basins, and rip rap energy dissipating devices. As previously discussed above, the drainage patterns generally consist of the front (eastern) section of the site draining towards Campo Road and the remaining lot area draining towards Willow Creek which generally bisects the lot. The *Preliminary Detention Storm Water Analysis* (updated October 2012) and the *Hollywood Casino Loop Road Improvements* (January 14, 2016) were referenced in helping to determine the site's existing drainage boundaries and Q100 peak flows at each of the discharge locations into Willow Creek. The Q100 flows at the four discharge points into Willow Creek as shown on the *Hollywood Casino Loop Road Improvements* were used to establish the existing condition flows. Therefore, in terms of complying with peak flow requirements, the flows at these discharge locations establish a baseline that should not be exceeded by the proposed new improvements. Applicable plan sheets from the *Hollywood Casino Loop Road Improvements* have been included in Appendix D for reference. Table 1-1 below and Exhibit 1 in Appendix A summarize and show the locations and Q100 peak flows at the four discharge points at Willow Creek. (Refer to Exhibit 1 for Node locations).

Table 1-1: Summary of Existing Q100 Flows To Willow Creeks

East Willow Creek	18	3.38	17.8
West Willow Creek-North	23	1.92	2.8
West Willow Creek- Central	42	0.27	6.2
West Willow Creek- South	33	0.13	3.3
		5.70	30.1

1.2.5 Floodplain Mapping

The project is located within an area which does not have a printed panel (06073C1955G) on the FEMA website but is shown as being in a Zone D area, which are defined as areas where flood hazards are undetermined, but possible. Per the *Jamul Casino and Resort Project, Hydrology and Drainage & Flood Storage Study*, prepared by Martin and Ziemniak, dated September 9, 2006, Willow Creek through the site conveys a 100-year storm event flow of 392 cubic feet per second. Subsequent plotting of the floodplain taken from the referenced study indicates that the existing site does not encroach into the 100-year floodplain except for the piers for the bridge crossing which have minimal effect on existing flood patterns, levels, and velocities through and south of the site. A snippet of the FIRM Map Number 06073C1955G is included in Exhibit E.

1.2.6 Downstream Conditions

Analysis of downstream conditions has not been performed as part of this drainage study since this preliminary study anticipates that the recommended site plan and storm water facilities will be designed to attenuate peak storm water flows to match existing levels.

1.2.7 Existing Impervious Cover

The site is currently developed with buildings for the casino, community center, offices, and church. Other impervious surfaces are located at the site such as for parking, driveway, and sidewalks. The current impervious surface area from the casino and adjacent driveway and from the area has been calculated to be approximately 159,921 sf. This amount does not include the existing pervious pavement areas which are better characterized as pervious surfaces. It also does not include a portion of the existing casino roof which is vegetated and considered a 'Green Roof'. The project anticipates that an impervious surface area increase of approximately 61,000 sf will occur due to the proposed improvements.

Section 2 – Methodology and Design Criteria

This section summarizes the design criteria and methodology applied for drainage analysis of the project site. The design criteria and methodology follows the County of San Diego Hydrology Manual (June 2003) and the San Diego County Hydraulic Design Manual (September 2014) as appropriate for the project site.

2.1 Rational Method

Proposed Condition Rational Method peak flows for the site were calculated using methodology in the County of San Diego Hydrology Manual utilizing the Advanced Engineering Software (AES) 2016 RATSCx software. The calculations were performed for the proposed conditions to quantify any increases or decreases to the peak Q100 flowrates at the proposed discharge locations. Runoff coefficients were based upon researched soils data and Table 3-1 of the County Hydrology Manual for the existing condition. The proposed condition assumed a Type C Soil since the areas impacted by the proposed changes are located in areas underlain by Type C soils. Time of concentration was calculated per Section 3.1.4 of the County Hydrology Manual and corresponding runoff intensities for the 100-year storm were based on a 6-hour precipitation of 3.0 inches. See Appendix A for Post-project rational method hydrology calculations.

2.2 Detention Analysis

Although an increase in peak runoff rates is expected when comparing the existing to developed conditions of the site, attenuation of the increases can and will be accomplished by use of detention facilities including those already existing onsite. These existing facilities could possibly be retrofit to achieve treatment and/or detention goals of the proposed site layout.

Preliminary flow control hydromodification (HMP) calculations have been prepared as part of the *Conceptual Stormwater Treatment Strategy Memo* prepared by San Dieguito Engineering (September 2022). HMP mitigation is anticipated to be provided by the same detention facility(ies) proposed for peak flow attenuation. Where possible, these facilities may also function to address stormwater treatment (pollutant control) via engineered biofiltration soil media (BSM). Preliminary detention calculations for attenuating peak flows from the proposed improvements are provided in Appendix B. Hydrographs for flows entering the respective detention facilities were developed using the County's Rational Hydrograph (RATHYDRO) software. Detention was modeled using the EPA SWMM 5.1 program by entering the hydrograph information as well as the facility's physical characteristics such as stage-storage, stage discharge, etc.

2.3 Hydraulic Calculations

Aside from the detention hydraulics which are an inherent part of the detention modeling, storm drain pipe hydraulic calculations were not prepared for this preliminary design study since construction drawings have not been prepared which would provide a more detailed storm drain conveyance systems for the proposed project improvements. Hydraulic Calculations should be included as part of the final construction drawing submittal to confirm pipe conveyance capacity and to design adequate energy dissipation at all discharge locations.

Section 3 – Hydrologic Effect of Project

This section summarizes the quantities and location of storm water runoff from the project site. Discussion of the water quality aspects of the project can be found in the *Conceptual Stormwater Treatment Strategy Memo*, which is under separate cover from this report.

3.1 Drainage Patterns

The overall drainage patterns due to the proposed improvements will remain relatively consistent compared to existing conditions. That is, the areas on the west side of Willow Creek will continue to discharge on the western bank of Willow Creek while the casino roof and partial driveway will continue to discharge on the eastern bank. However, the new local inlets and piping configurations necessary as part of the improvements may likely require slightly altering the existing drainage boundaries.

In consideration of concurrently achieving both peak flow and water quality objectives, this study assessed the proposed project via two paths. The first analysis performed would determine what the 'hydrological-only' impact of the proposed site changes would have on the existing structural facilities consisting of the existing cistern and bioretention basins. This would help answer the initial question whether the existing facilities could be utilized without considerably revising the existing drainage patterns and/or requiring significant structural changes to the existing facilities. The second assessment would then assess a feasible option(s) which would account for integrating water quality and flow-control hydromodification measures to the site design in order to achieve compliance with County MS4 permit requirements. See Section 3.3 for detailed discussion of each analysis.

A couple of strategic design considerations were taken into account for assessing and more efficiently addressing the site's drainage situation. The proposed drainage facilities should initially be designed to mimic the existing condition drainage patterns wherever possible to minimize creation of drainage area diversions and to minimize the flow increases at the respective discharge points. Secondly, if found deficient, could further assessment of the existing detention and treatment facilities determine that compliance can be achieved by retrofitting them and/or their respective outlet structure.

3.2 Proposed Impervious Cover

The proposed remodel of the casino for the new events center will require replacing a portion of the roof which will slightly alter existing drainage patterns and require drainage inlets and piping to convey drainage towards the existing detention (cistern) storage facility located at the west side of the casino building. The roof remodel will increase the impervious surface area by approximately 26,539 sf.

The proposed improvements west of Willow Creek consisting of the new hotel, new parking structure, new vehicular bridge crossing, and pedestrian bridge crossing are estimated to add approximately 34,100 sf of impervious surface. This amount accounts for the reduction of permeable paver sections which is anticipated to either be removed or built over.

The overall net increase amount of impervious surface from these new improvements will be approximately 61,000 sf.

3.3 Peak Runoff

As briefly mentioned in Section 3.1 above, two proposed-condition scenarios were assessed to aid in determining compliance options to ultimately achieve both peak flow and stormwater treatment objectives per current San Diego County standards.

3.3.1 Analysis 1: Assessment of Proposed Site Maintaining Existing Drainage Boundaries

The initial analysis which attempted to mimic existing drainage subareas expectedly determined that increasing the amount of impervious surfaces would, in turn, increase the cumulative unmitigated peak flow. Calculations determined that cumulatively, the peak Q100 flow would increase by approximately 3.12 cfs during the proposed-unmitigated flow condition, from 30.1 cfs to 33.22 cfs. The increase is attributed to the increase of impervious surface area from the new hotel, parking, and remodel of the casino. When integrating the effect from the existing stormwater detention facilities including the cistern located at the southeast corner of the casino and the bioretention basin (IMP B) on the west side of Willow Creek, the cumulative peak flows discharging into Willow Creek were calculated to be 12.31 cfs; 17.79 cfs less than the cumulative existing condition of 30.1 cfs. Please see Table 3-1 below for a summary of peak flows calculated for this initial analysis.

Table 3-2 Summary of Hydrology Analysis- Using Existing Drainage Boundaries

East Willow Creek (Cistern + IMP A)	18	3.38	17.8	3.38	22.04	2.69	-15.11
West Willow Creek-North (IMP B)	23	1.92	2.8	2.01	8.79	7.23	+4.43
West Willow Creek- Central	42	0.27	6.2	0.27	1.77	1.77 (No Detention)	-4.43
West Willow Creek- South (IMP C)	33	0.13	3.3	0.11	0.62	0.62 (No Detention)	-2.68
		5.70	30.1	5.90	33.22	12.31	-17.79

Clearly, strictly in terms of peak flow, the existing facilities have the capacity to effectively reduce the *cumulative* peak flow into Willow Creek enough to offset the impervious surface increases from the proposed project. However, if evaluating each discharge location individually, it is shown that the 'North' discharge point on the West side of Willow Creek would experience a Q100 increase. A separate, concurrent study was performed as part of the *Conceptual Stormwater Treatment Strategy*

Memo (September 2022) which similarly studied whether the existing facilities could adequately address stormwater treatment and HMP requirements for the proposed site revisions. In brief, the study of the Analysis 1 condition found sizing and volume deficiencies in the required bioretention basins (IMP A, IMP B, and IMP C). Therefore, between both this study and the ‘Stormwater Treatment’ study, it was found that the facilities as they currently exist (Analysis 1) could achieve peak flow compliance but not MS4 permit compliance. This initial Analysis 1 helps establish or gauge the potential volume capacity available and identifies any deficiencies which occur at each facility. This information serves as an aid in planning a better-defined stormwater strategy when integrating water quality and HMP measures as part of the second assessment below. Below are a few findings resulting from Analysis 1 :

1. The existing Cistern located at the southwest corner of the Casino building has sufficient storage volume capacity to mitigate peak flows and HMP (flow-control) flowrates. However, the outlet structure should be altered to properly meter discharge for compliance.
2. The bioretention basin (IMP A) located immediately south of the Cistern does has sufficient size when classified as a compact water quality basin with a lower maintenance frequency interval.
3. The bioretention basin (IMP B) which outlets to the northernmost discharge point on west side of Willow Creek is not adequately sized to handle the proposed revisions to the site. The peak flow discharge is increased at the discharge location per Table 3-1 above. Also, it’s surface area and depth is not considered large enough for flow control storage per the County’s BMP Sizing Spreadsheet (V3.1). There is also a potential that the associated HMP sizing and discharge parameters may exceed maximum drawdown limits.
4. The bioretention basin (IMP C) located at the southwest corner of the loop road will be impacted by placement of the new garage. Its size will be significantly reduced. Preliminary analysis indicates that peak flow detention is not necessary at this location in order to match existing pipe design flows (Table 3-1). However, in terms of water quality surface area and volume for HMP detention, this location has a borderline size for compliance and would be dependent on the finalized garage configuration.
5. The design of the existing casino was performed about ten years ago. Although hydrologic standards haven’t changed since, the County’s BMP Design Manual has evolved and seen updates. These updates provide more definitive guidance on complying with the local MS4 permit and provide worksheets which were not available in 2012. Redefining the nomenclature used on the 2014 Casino plans will be necessary to clarify the project BMPs to be proposed.

3.3.2 Analysis 2: Assessment of Proposed Site Revising Existing Drainage Boundaries

Following the initial Analysis 1, it is apparent that the existing cistern and bioretention basin (IMP A) at the southwest corner of the casino can adequately continue to function to treat stormwater runoff from the casino building, with minimal modifications. Therefore, this Analysis 2 will not restate the findings above except to add that, the storm drain which is currently collecting a small portion of the loop road along the southern property boundary should be tied to the building piping instead of bypassing the cistern detention and water quality treatment facilities. The calculations presented in this study have anticipated this revised piping to occur.

Similar to IMP A, Analysis 1 found that bioretention basin ‘IMP C’ located at the southwestern end of the looped road potentially had sufficient size for achieving water quality and HMP compliance. Detention storage for peak flow mitigation was found not to be necessary since calculations showed a reduction of peak flows compared to the existing pipe’s design flow. That said, due to the uncertainty that this location may ultimately not be adequately sized due to the design of the ne garage, Analysis 2 assumes

this associated drainage subarea will be diverted towards the northern drainage subarea which is tributary to the bioretention 'IMP B'. As determined in Analysis 1 and described in bullet point #3, Section 3.3.1, IMP B does not have the surface area to treat the new hotel and garage. The *Conceptual Stormwater Treatment Strategy Memo* proposes to modify the existing treatment strategy. The memo proposes to utilize a modular-type flow-based biofiltration treatment unit for treating the impervious surfaces located on the western side of Willow Creek. This would allow the existing bioretention basin (IMP B) to be converted into a detention-only basin used strictly for detaining HMP flows and peak Q100 flows. Modifications to the basin would include removing of the existing biosoil media (BSM) and gravel sections and modifying the existing outlet structure and piping. The preliminary proposed adjustments would result in a peak outflow into Willow Creek 6.65 cfs from the basin. See Table 3-2 below for a flow comparison at the multiple discharge points into Willow Creek.

Table 3-2 Summary of Hydrology Analysis- per Conceptual Storm Drain Layout

East Willow Creek (Cistern + IMP A)	18	3.38	17.8	3.38	22.04	2.69	-15.11
West Willow Creek-North (IMP B)	23	1.92	2.8	2.38	10.51	6.65	+3.85
West Willow Creek- Central	42	0.27	6.2	0.00	0.00	0.00	-6.2
West Willow Creek- South (IMP C)	33	0.13	3.3	0.00	0.00	0.00	-3.3
		5.70	30.1	5.90	32.55	9.34	-20.76

The results from Analysis 2 indicate treatment of site's stormwater runoff can be achieved utilizing many of the existing facilities but will require retrofitting to achieve compliance of drainage and MS4 permit requirements. The following recommendations or similar present a pathway for project compliance to be confirmed during preparation of the construction drawings:

1. All storm drain piping from the casino building should be routed towards to and emptied into the existing cistern located at the building's southwest corner. This includes all existing downdrains. Also, the existing storm drain which collects loop road runoff along the casinos south side should be re-routed to empty into the cistern instead of directly discharging to the creek.
2. The existing basin and outlet structure outside the southwest corner of the casino building should be restored and repaired as necessary to achieve required ponding levels and infiltration rates.
3. To minimize the size of the proposed treatment facilities west of Willow Creek, site design BMPs such as permeable pavers should be utilized wherever possible.

4. Storm drain piping on the west side of Willow Creek should be a connected system draining towards the vicinity of existing bioretention basin IMP B. Prior to emptying into IMP B, a diversion structure should be constructed to divert lower (Q85th) treatment flowrates towards a flow-based modular biofiltration treatment device. Higher flowrates should be routed through the diversion structure and empty into the retrofitted 'IMP B' basin. The changes to the basin will include removal of the biosoil media and gravel sections, essentially creating a deeper basin for detention volume. The current outlet structure will also require modifying to achieve compliance with Q100 and HMP standards.

3.4 Project Erosion and Sedimentation

Because the proposed project will limit the flows and velocities of runoff generated, neither erosion or sedimentation are anticipated. Where necessary, pipe discharge velocities will be decreased to non-erosive levels by use of energy dissipating device such as rip rap, check dams, or permanent turf reinforcement matting.

Section 4 – Summary and Conclusions

This section provides a summary discussion of the potential effects of the proposed project on local water resources in terms of quantity and location.

- The proposed project will not alter areas from existing confluence points. In addition, the 100-year peak flows to Willow Creek will not be increased compared to the existing condition since the onsite detention facilities will meter the proposed development flowrates prior to discharge.
- The project proposes to replace existing onsite storm drain and treatment facilities as necessary to adequately convey any generated peak flows through the site without causing flooding.

Section 5 – TEIR Summary

This section summarizes the results of the hydrologic analysis in the context of TEIR significance guidelines.

5.1 Drainage

5.1.1 Erosion and/or Sedimentation

Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site?

The project will not alter existing drainage patterns of the site area in a manner that would result in substantial erosion or sedimentation. The project does not alter the course of a stream or river.

- Flows may be concentrated at certain locations, including storm drain outfalls. However, all proposed outfalls will be outfitted with energy dissipation devices. Other storm water Best Management Practices (BMPs) will help preclude significant erosion and/or siltation on- and off-site.

5.1.2 Flooding

Does the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?

The project will not alter existing drainage patterns of the site area in a manner that would result in flooding on- or off-site. The project does not alter the course of a stream or river.

- This drainage study demonstrates that the project will not increase the 100-year peak storm discharge, as compared with existing conditions.

5.1.3 Drainage System Capacity

Does the project create or contribute runoff water that would exceed the capacity of existing or planned storm water drainage systems?

The project will not create or contribute runoff water that would exceed the capacity of existing or planned storm water drainage systems.

- All proposed drainage facilities will be designed to accommodate the 100-Year storm event.

5.2 Flood Hazards

5.2.1 Residential Flood Hazard

Would the project place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map, including County Floodplain Maps?

The project does not propose to locate any housing within the 100-year flood hazard area.

- The project does not propose any development within the 100-year floodplain or other Special Flood Hazard Area (SFHA) designated by FEMA or the County of San Diego.

5.2.2 Flood Flow

Does the project place within a 100-year flood hazard area structures that would impede or redirect flood flows?

The project does not propose to locate any structures or grading in the floodplain that would impede or redirect flood flows.

- The project does not propose any development within the 100-year floodplain or other Special Flood Hazard Area (SFHA) designated by FEMA or the County of San Diego.

5.2.3 Flood Hazard

Does the project expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of a levee or dam?

The project does not place any people or structures at significant risk of loss, injury or death due to flooding.

- The project does not propose any development within the 100-year floodplain or other Special Flood Hazard Area (SFHA) designated by FEMA or the County of San Diego.

5.2.4 Other Hazards

Is the project at significant risk of inundation by seiche, tsunami, or mudflow?

The project is not located in an area at risk of inundation by seiche (lake slosh), tsunami, or mudflow.

5.3 *Waiver and Release Agreements*

The project does not alter downstream flow characteristics significantly, either due to increase in flow or flood condition, diversion of flow, or flow concentration. Therefore, it should not be necessary to obtain waiver and release agreements from any affected property owners.

Section 6 – References

County of San Diego Department of Public Works Flood Control (June 2003). San Diego County Hydrology Manual.

County of San Diego Department of Public Works Flood Control Section (September 2014). San Diego County Hydraulic Design Manual.

County of San Diego Department of Public Works Flood Control Section (July 2005). San Diego County Drainage Design Manual.

Soil Conservation Service (December 1973). Soil Survey, San Diego Area, California.

Preliminary Detention and Storm Water Analysis- Jamul Indian Village Casino Project (October 2012) prepared by San Dieguito Engineering, Inc.

Jamul Casino and Resort Project Hydrology and Drainage & Flood Storage Study (September 29, 2006), prepared by Martin & Ziemniak

Hollywood Casino Loop Road Improvements (As-Builts) (September 8, 2016), plans prepared by San Dieguito Engineering, Inc.

Hollywood Casino Loop Road Utility Improvements (September 8, 2016), plans prepared by San Dieguito Engineering, Inc.

Exhibit A

Vicinity Map

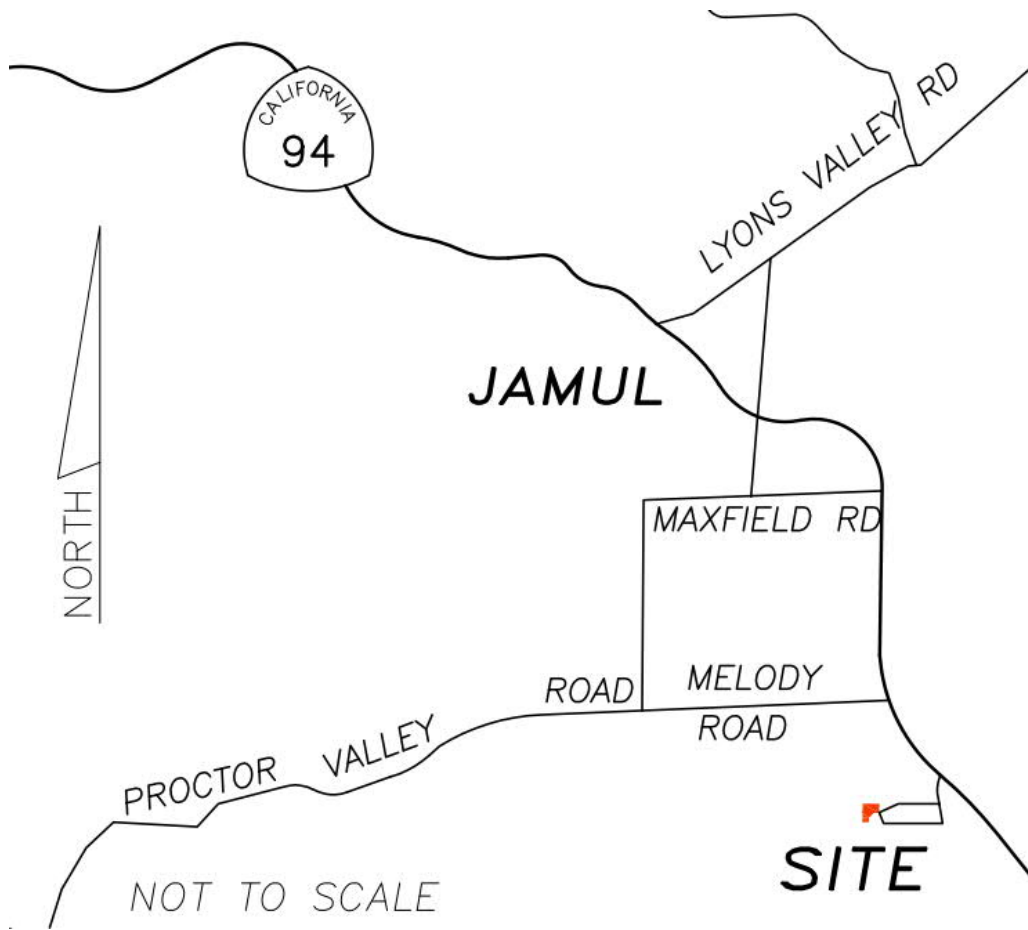


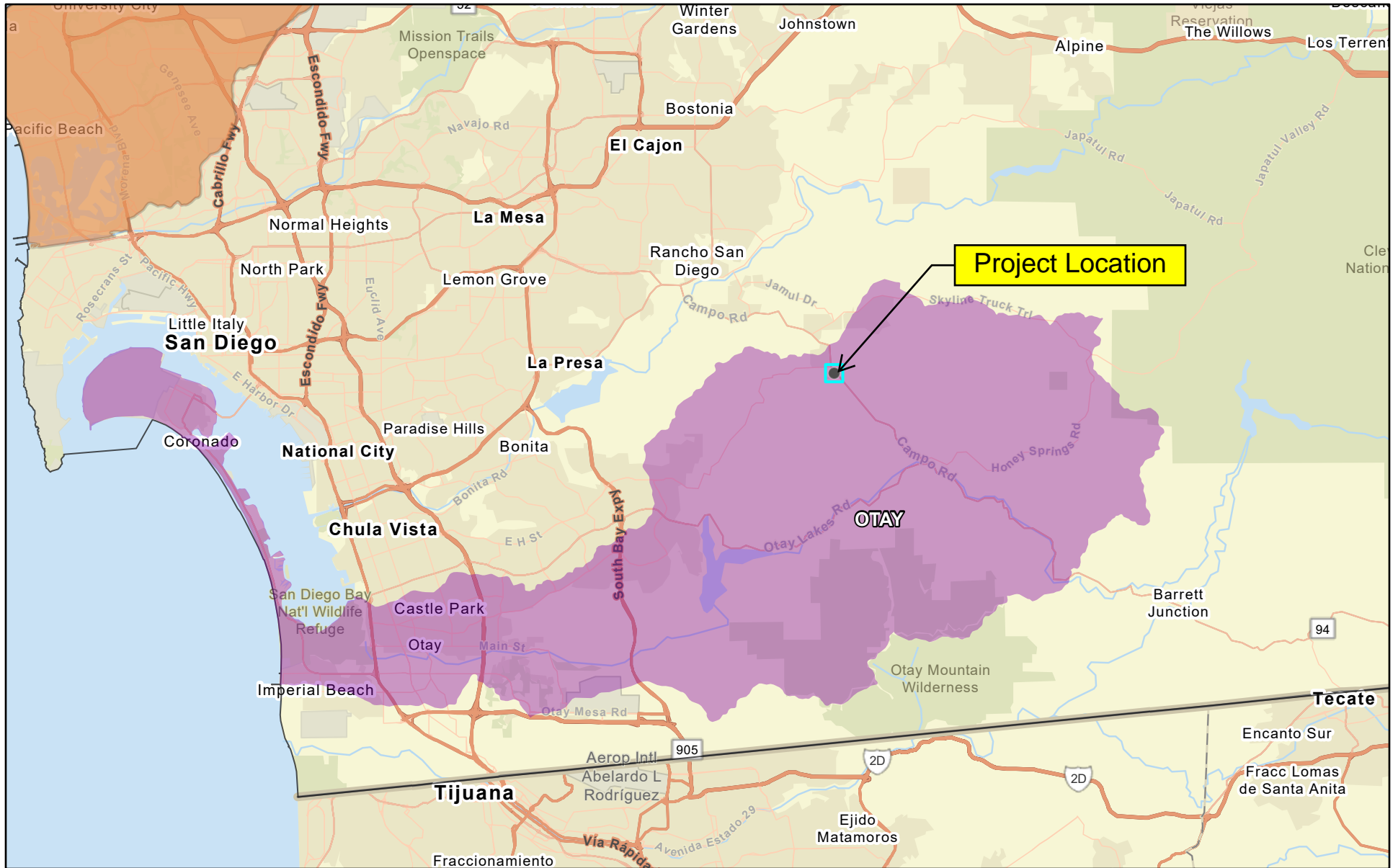
Exhibit B

Watershed Vicinity Map



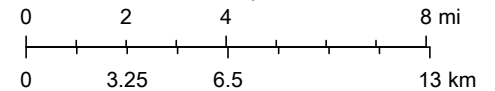
SDE

Jamul Casino Hotel



July 6, 2022

1:288,895



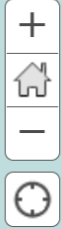
City of Chula Vista, SanGIS, California State Parks, CONANP, Esri, HERE, Garmin, Foursquare, SafeGraph, METI/NASA, USGS, Bureau of Land

Exhibit C

County General Plan Land Use/Zoning Map



SDE



S88 59706008

59707006

59706002

Peaceful Valley Ranch Rd

59707002

(4 of 7) ◀ ▶ □ ×

General Plan:34

SPA_NAME	
SPA_DENSIT	0.00
SPA_UNITS	0.00
MURES	0.00
MUNONRES	0.00
MUUNITS	0.00
MUNAME	
MIXED_USE	NO
GPCODE95	34
FCI	
DESCRIPTION	TRIBAL LANDS
ADOPT_DATE	6/25/2019
CASE_NO	

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59708005

Jamul Indian Village

59708006

A72

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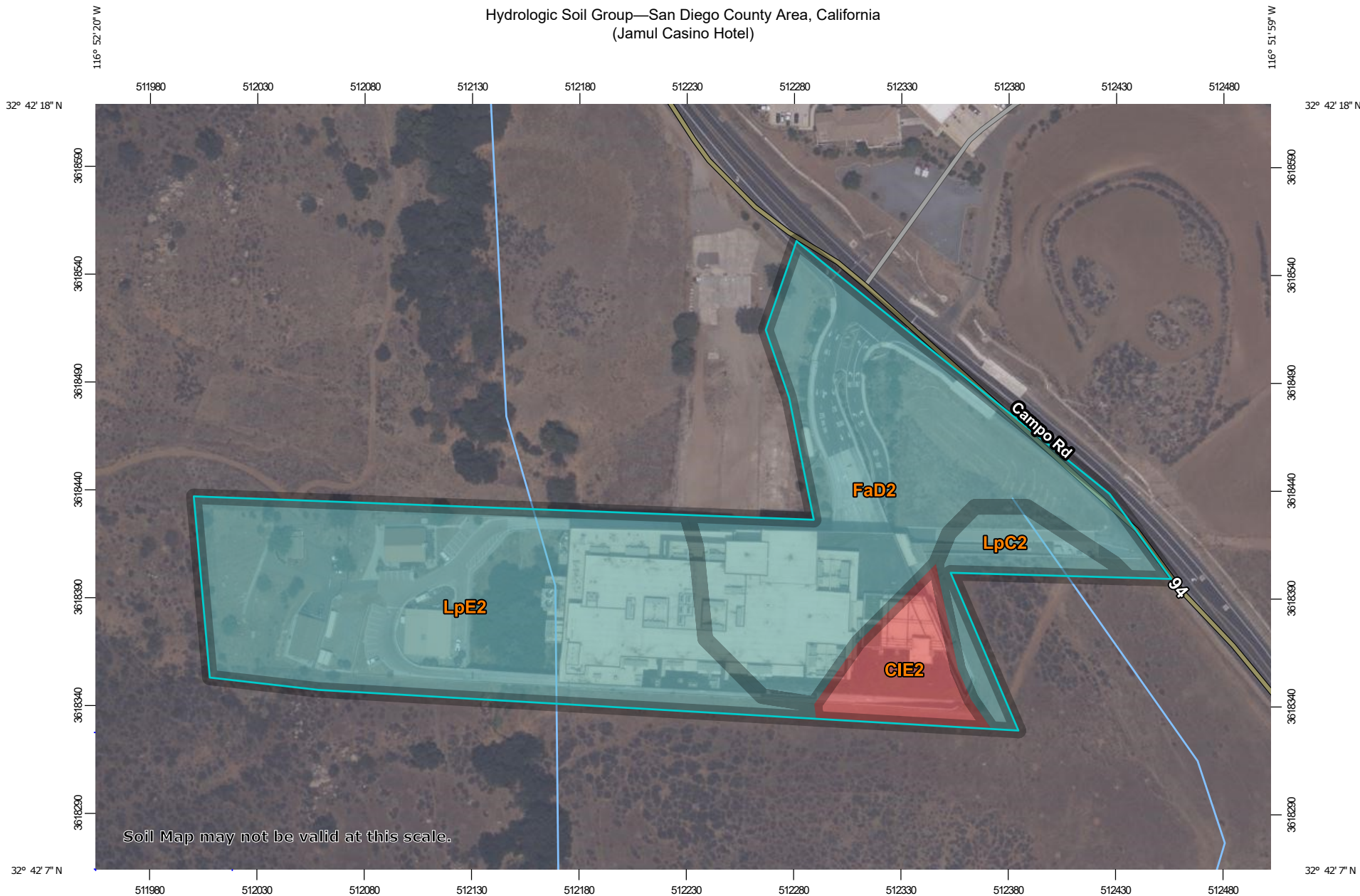
Exhibit D

Soil Types

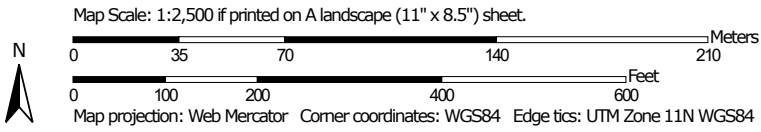


SDE

Hydrologic Soil Group—San Diego County Area, California
(Jamul Casino Hotel)




Soil Map may not be valid at this scale.



MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils

Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines


 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points






 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available


Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Diego County Area, California
 Survey Area Data: Version 16, Sep 13, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 18, 2018—Aug 22, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CIE2	Cieneba coarse sandy loam, 15 to 30 percent slopes, eroded	D	0.8	6.9%
FaD2	Fallbrook sandy loam, 9 to 15 percent slopes, eroded	C	4.6	40.2%
LpC2	Las Posas fine sandy loam, 5 to 9 percent slopes, eroded	C	0.7	6.2%
LpE2	Las Posas fine sandy loam, 15 to 30 percent slopes, eroded	C	5.3	46.7%
Totals for Area of Interest			11.3	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Exhibit E

FEMA Flood Insurance Rate Map



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Appendix D sub-appendices available upon request.

Appendix E

Conceptual Stormwater Treatment
Assessment



SAN DIEGUITO ENGINEERING, INC.
Engineering | Surveying | Planning

September 8, 2022

Bibiana Alvarez
Principle
Acorn Environmental
5170 Golden Foothill Parkway
El Dorado, CA 95762

Subject: 'Jamul Casino Hotel and Event Center' Conceptual Stormwater Treatment
Assessment and Options

San Dieguito Engineering has completed its initial stormwater analysis relative for the proposed improvements for the Jamul Casino Hotel and Event Center Project. The project description is fully described in the section below. The scope of this analysis was to evaluate the existing stormwater treatment features within the project site and determine how they would be impacted by the proposed improvements and then provide recommendations for offsetting these potential impacts. A separate study has been prepared concurrently to evaluate the hydrologic and drainage aspects of the site. Please refer to the *Preliminary Drainage Study for Jamul Casino Hotel and Event Center Project* prepared by San Dieguito Engineering (September 2022).

Section 1 – Project Information

1.1 *Project Description*

The Jamul Indian Village of California (Tribe) is proposing to expand its Jamul Casino with the addition of a hotel, event center, additional parking garage, and associated infrastructure. The proposed improvements will be developed on the Tribe's existing Reservation. The existing facility includes a 203,130 sf -square-foot (sf) casino and an eight-level parking garage. The proposed hotel will consist of a total of 16 floors, with 10 floors of guest rooms, roof-top pool, spa, restaurant, and banquet space. The proposed hotel will provide up to 225 rooms and be developed on the west side of the Reservation. An additional parking garage will be located south of the proposed hotel building. The proposed parking garage will have 6 levels and provide 290 parking spaces. The existing tribal community center and administration building currently located on the west side of the Reservation will be relocated to accommodate the footprint of the new hotel and parking structure. The existing casino building will be remodeled to eliminate the second floor (which is a veranda level between the main casino floor and the third floor, and the location of a restaurant) and the fourth floor (currently the rooftop lounge) of the

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existing Casino building and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation. Other existing dining, office, circulation, and support spaces will be reconfigured or relocated within the Casino, but not expanded. No expansion of the gaming floor or increase in the number of slot machines or table games is proposed.

1.1.1 Project Location

The Reservation consists of approximately six acres of federal trust land located in unincorporated San Diego County, approximately one mile south of the community of Jamul (Figure 1). The Jamul Casino is located on the Reservation at 14145 Campo Road, Jamul, CA 91935. The Reservation is located within portions of Section 10 and unsectioned areas of Township 17 S, Range 1 East, San Bernardino Baseline and Meridian.

State Route 94 (SR 94) provides regional access to the Reservation from downtown San Diego, which is located approximately 20 miles to the west of the Reservation. Local access to the Reservation is provided directly from SR 94 via Daisy Drive and an access road limited to authorized vehicles.

1.1.2 Project Activities Description

The Proposed Project consists of remodeling the existing Jamul Casino to include a new event center, 225-room hotel, and associated parking and infrastructure. Currently, the Jamul Casino occupies four levels above an eight-level parking garage. The main casino floor is the first building floor and there are three floor levels above main casino floor. The second floor is a partial level that provides a restaurant with veranda and allows circulation between the main casino floor and the fourth floor. The third floor provides kitchen and administrative office space. The fourth floor is a partial level that provides a rooftop lounge terrace.

The proposed remodeling would eliminate the second floor and the fourth floor and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation. The existing restaurant located on the second floor of the casino building would be relocated to the third floor with no changes in occupant capacity. Approximately 11,838 sf of existing office space on the eastern portion of the third floor would be relocated to an expanded area of the western portion of the third floor (Figure 2). The new event venue would result in a net increase of approximately 35,000 sf of enclosed, covered outdoor, and uncovered outdoor areas. No expansion of the gaming floor or increase in the number of slot machines or table games is proposed. Table 1 provides a summary of the existing and proposed development.

A new hotel and associated parking structure would be developed west of the existing casino building with pedestrian access to the casino building provided by a new bridge over Willow Creek, which bisects the Reservation immediately west of the existing casino building (Figure 2). The proposed 225-room hotel would consist of 16 stories including a banquet hall (Floor 2), a hotel lobby level with restaurant (Floor 3), a spa level with outdoor deck (Floor 4), 10 levels of guest rooms (Floors 5 through 14), a rooftop pool deck (Floor 16), and 2 levels of back-of-house/mechanical (Floors 1 and 15). The height of the hotel tower would be at an elevation of approximately 1,128 feet above mean sea level (amsl), which is approximately 225

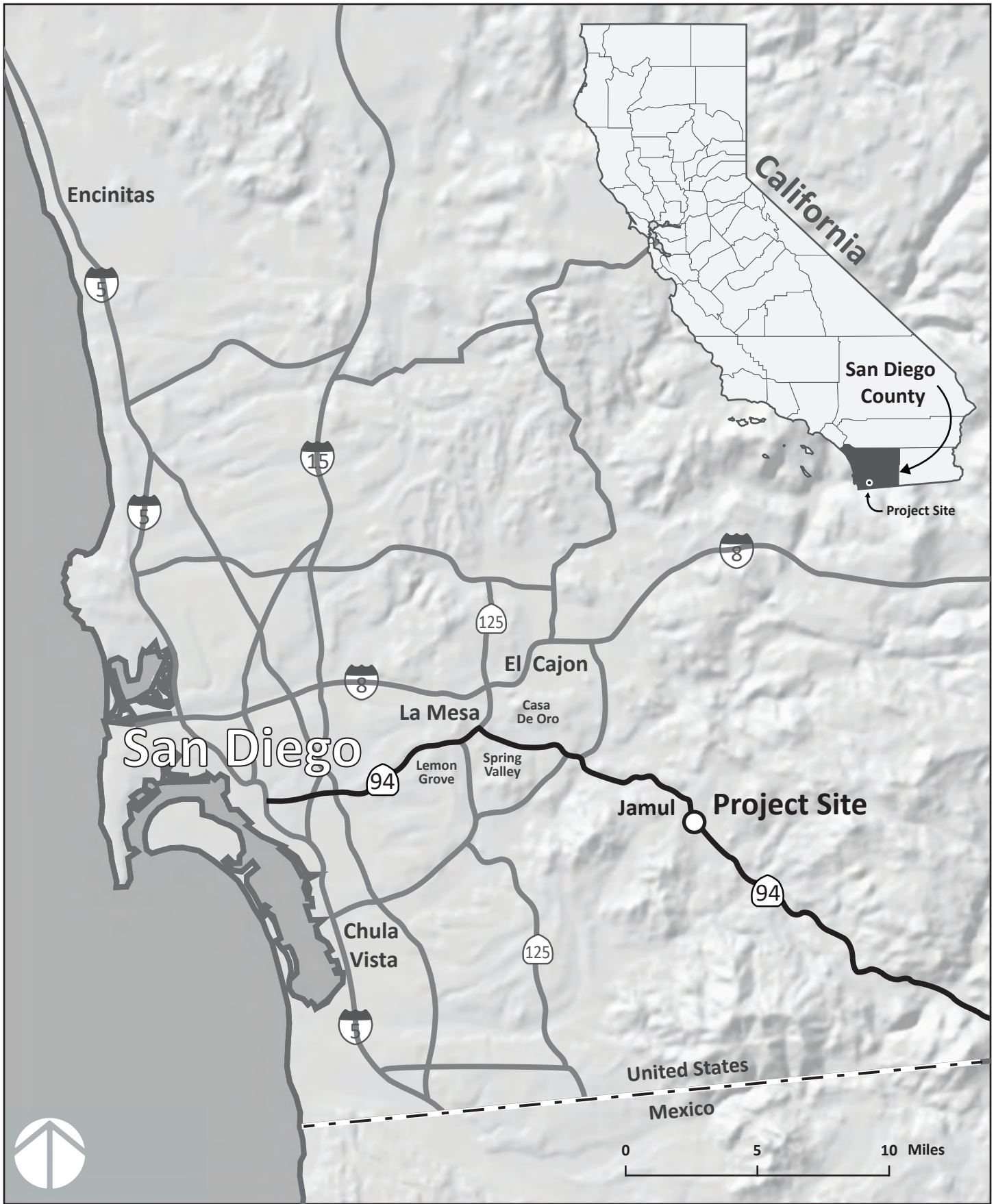


FIGURE 1
REGIONAL LOCATION



Source: JCJ Architecture

FIGURE 2
SITE PLAN

feet above ground level and 116 feet taller than the existing casino building. A new 6-story parking structure would be developed south of the new hotel building and would connect to the hotel lobby. The existing tribal community center and administration building would be removed to accommodate the footprint of the new hotel and parking structure. There are several options under consideration for relocation of the Tribal administration and community facilities, including utilizing space within the expanded third floor administrative areas of the casino, purchase of an off-site property with an existing building, or leasing existing office space within the region.

Table 1: Existing and Proposed Development

	Existing	Proposed Change	Proposed New Total
Casino			
First Floor	125,850 sf	—	125,850 sf
<i>Casino Floor</i>	68,262 sf	—	68,262 sf
<i>Restaurants/Bars</i>	29,035 sf	—	29,035 sf
<i>Misc. and Circulation</i>	28,553 sf	—	28,553 sf
Second Floor	8,110 sf	(6,907 sf)	1,203 sf
<i>Restaurant/Bars (Loft 94)</i>	248 seats / 4,549 sf	(4,549 sf)	0 sf
<i>Misc. and Circulation</i>	3,561 sf	(2,358 sf)	1,203 sf
Third Floor	60,132 sf	50,983 sf	111,115 sf
<i>Outdoor Event Center</i>	—	25,514 sf	25,514 sf
<i>Bingo Hall</i>	—	9,233 sf	9,233 sf
<i>Restaurant/Bars (relocated Loft 94)</i>	—	248 seats / 7,449 sf	248 seats / 7,449 sf
<i>Office, Misc., and Circulation</i>	60,132 sf	—	60,132 sf
Fourth Floor	9,038 sf	(9,038 sf)	0 sf
<i>Restaurant/Bars (Loft 94 roof deck)</i>	5,604 sf	(5,604 sf)	0 sf
<i>Misc. and Circulation</i>	3,434 sf	(3,434 sf)	0 sf
Total Casino (Floors 1-4)	203,130 sf	35,038 sf	238,168 sf
Hotel			
Guest Rooms		225 rooms	225 rooms
Dining	—	92 seats/6,724 sf	92 seats/6,724 sf
Banquet	—	187 seats/5,180 sf	187 seats/5,180 sf
Bar	—	49 seats/1,242 sf	49 seats/1,242 sf
Rooftop Pool Deck	—	14,608 sf	14,608 sf
Fitness Center	—	900 sf	900 sf
Spa	—	8,600 sf	8,600 sf

Total Hotel	—	16 floors/253,390 sf	16 floors/253,390 sf
Hotel Parking	—	290 spaces/111,415 sf	290 spaces/111,415 sf
Notes: All measurements are approximate; sf = square feet of building area; (x) = reduction in square footage			

1.1.3 Access

Access to the Reservation is provided directly from SR 94 via Daisy Drive. The intersection of SR 94 and Daisy Drive is a signalized intersection. In the vicinity of the Reservation, SR 94 is a two-lane highway. Dedicated turning lanes are provided on SR 94 at the Daisy Drive intersection. No changes are proposed to the existing off-Reservation roadways and driveways serving the site. Circulation to the proposed hotel and associated parking garage would be provided through extensions to the existing roadway on the Reservation. The existing access road to the chapel and cemetery located west of the Reservation will be preserved.

Section 2 – Stormwater Treatment

2.1 Existing Condition

The portion of property which will be affected by the proposed improvements currently consists of the casino building, looped road around casino, community center, church, tribal office building, and waste water treatment plant. Willow Creek bisects the property with the casino on the east side and the remaining facilities on its west side. Treatment of stormwater runoff from the site including addressing flow control hydromodification (HMP) is currently being taken care of by a variety of mechanisms as described below. The *Preliminary Detention Storm Water Analysis* (updated October 2012) and the *Hollywood Casino Loop Road Improvements* (January 14, 2016) were referenced in helping to determine the site's existing treatment and discharge locations into Willow Creek.

2.1.1 Casino Building

The overall footprint of the existing casino's roof including its lower-level roofs is approximately 139,890 sf. As a means of reducing its runoff factor and, in turn, the amount of runoff generated, a portion of the roof was originally designed as a 'Green Roof' with planted landscaping and drainage system to convey unretained runoff. Approximately 26,540 sf (19%) of the roofs overall footprint area was landscaped for 'Green Roof' credit. The roof drainage system collects runoff and directs it west towards a cistern located at the lower southwest corner of the casino building. This cistern was designed to address the HMP flow control storage requirements per County of San Diego requirements. The cistern has approximately 39,875 cubic feet of storage and an outlet riser meant to attenuate HMP-level and Q100 flowrates. The outlet from this riser discharges into a bioretention basin located immediately outside the southern wall of the cistern. See Attachment 1 for a current layout of the existing onsite BMPs. The bioretention basin (Imp A) is a 2,400 sf flat-bottomed basin with an 18" thick layer of biosoil media. The low treatment

flowrates percolate through the media and exit the basin via a 6' perforated underdrain. Higher flowrates overtop a catch basin outlet structure and exit the basin through a 24" outfall pipe. This outfall pipe discharges directly into Willow Creek.

2.1.2 Existing Parking and Improvements west of Willow Creek.

The area on the west side of Willow Creek generally slopes east towards Willow Creek. Drainage from this area discharges into Willow Creek at three locations. The tributary area to the northernmost discharge location includes much of looped road (west of Willow Creek), the community center, church, tribal offices, and cemetery. A large portion of the looped road in this subarea was constructed of pervious pavement to allow for local infiltration and reduction in site runoff. Runoff is routed through the subarea to a bioretention facility (IMP B). This water quality treatment facility is a basin with a 2,400 sf bottom surface area and catch basin riser structure equipped with an orifice used for addressing flow control (HMP). The basin subsurface layers consist of an 18" engineered soil mix section underlain with 18" of aggregate.

Runoff from the center discharge location along the west side of Willow Creek comes from the wastewater treatment plant (WWTP) subarea. The driveway to the WWTP is constructed with permeable pavement. Surface runoff for this area initially filters through the paver section for treatment. Higher flows from this area are collected by a curb inlet and then discharged into Willow Creek.

The southernmost discharge location along the west side of Willow Creek discharges runoff from a small portion of the site consisting of the looped road and a small bioretention area (IMP C) which treats the respective subarea. Approximately half of the road area draining to IMP C was constructed with permeable pavement. The road surface drains into the 667 square foot bioretention basin which is also utilized to address flow control (HMP). The treatment flowrates percolate through the 18" engineered soil mix layer and then through the 18" aggregate layer. A 6" perforated pipe within the gravel section collects and conveys the runoff to a catch basin. At the surface, this catch basin serves as a riser and helps in metering outflows before discharging its runoff to Willow Creek (underneath the loop road bridge section).

2.2 Proposed Condition Improvements and drainage treatment recommendations

The proposed project will increase the site's overall impervious surface area. For the most part, the increase will come from the new hotel and garage, and from removal of the existing green roof atop the eastern side of the casino relative to the new events center. A net overall increase of about 61,000 sf of impervious surface area is expected from the proposed improvements. For this study, the existing treatment facilities have been initially evaluated to determine whether the proposed improvements would impact their capacity to comply with the local treatment requirements. If they could not, they would then be evaluated to determine whether they could feasibly be retrofit or would require significant adjustments to the existing treatment facility design. The above two scenarios were analyzed to coincide with the preparation of the *TEIR Preliminary Drainage Study for Jamul Casino Hotel and Event Center Project* (September 8, 2022) prepared by San Dieguito Engineering and are identified as 'Analysis 1' and 'Analysis 2' in both studies.

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The current major drainage patterns will generally be maintained with minor adjustments. Also, portions of the looped road which are currently constructed with permeable pavement are planned to be effectively removed and reclassified as an impermeable surface. This is due to either that portion being replaced as part of the improvements or that portion to be located directly underneath a newly constructed impervious improvement such as where the new hotel and garage are being built over the loop road.

2.2.1 Casino Building

As previously mentioned, removal of the green roof section and replacing with an impervious roof will increase the impervious surface area to the downstream BMPs consisting of the cistern and bioretention basin at the southwest corner of the casino. The increase is estimated to be about 34,000 sf. The cistern serves to address flow control hydromodification and peak flow (Q100) detention while the basin addresses water quality treatment. The initial Analysis 1 determined that, in regards to water quality treatment, the current basin with a surface area of 2,400 sf could meet the County's retention requirement but marginally complies with the Performance standard since it is sized less than the County's standard 3% requirement. However, when considering the pollutant loads which can be expected from 'roof areas', the existing basin could be reclassified as a 'Compact' Biofiltration BMP and still comply with the County's BMP Design Manual requirements. See the attached worksheet calculations in Attachment 2.

Review of the approved plans and as-builts indicate that the cistern footprint is approximately 5,500 square feet and is equipped with an orifice outlet riser and separate spillway box. The outlet to the riser includes a low-flow orifice which allows for complying with HMP flow control requirements and detaining peak flowrates. The spillway box is approximately 4' x 4' x 7.25' and helps in metering outflow from the cistern. In utilizing the latest County's BMP Sizing Spreadsheet (V3.1) which uses pre-determined sizing factors to determine cistern volumes and orifice sizes, it was determined that the existing cistern does have the volume necessary to provide HMP storage for the proposed casino which includes replacing the green roof portion with an impervious surface roof. It should be noted that an existing storm drain which collects loop road runoff along the casino's south side currently discharges to Willow Creek per the Hollywood Casino Improvement Plans. To achieve water quality and HMP compliance, the calculations for this Analysis 1 added that road area to be tributary to the cistern and IMP A basin. Per the County worksheet, a cistern volume of 20,595 cf is necessary for cistern storage for HMP alone. For a 5,500 sf bottom cistern, this volume can be accomplished at a depth of approximately 3.75'. The spreadsheet further calculates an orifice of 1.7 inches at the base of the riser. Refined calculations utilizing continuous simulation software such as EPA SWMM should be performed during preparation of final construction drawings to optimize the cistern capacity and discharge rates. See Attachment 2 for HMP calculations. Please refer to the *TEIR Preliminary Drainage Study for Jamul Casino Hotel and Event Center Project* for calculations associated with peak flow attenuation being accomplished by the cistern.

Analysis 1 relative to the casino was able to determine that both the existing bioretention basin (IMP A) and cistern could adequately meet the treatment and storage needs of the casino with minimal structural

modifications to the cistern outlet structure and by restoring the existing IMP C basin to achieve the required ponding levels and infiltration rates.

2.2.2 Hotel and Garage west of Willow Creek

The proposed layout of the new hotel, garage, and pedestrian bridge will increase the amount of impervious surface on the west side of Willow Creek by approximately 34,300 sf. As discussed in Section 2.1.2 above, the west side of Willow Creek currently discharges at three separate locations into Willow Creek. Analysis 1 for treating of the areas on the west side of the Willow Creek would determine whether the existing stormwater facilities could continue to be utilized for treating the proposed improvements without requiring significant alteration the current treatment plan.

The northern discharge has the largest tributary area in current conditions and will remain so with the proposed improvements including the hotel and garage site. All of the increase in impervious area for the west side of Willow Creek will essentially come from these two structures. The areas tributary to the central and south discharge points will slightly be reduced due to the impact of the hotel and garage improvements. Therefore, most if not all, of the revised treatment BMP effort west of Willow Creek will be focused on the northern discharge point.

Analysis 1:

The treatment BMP for the northern BMP (IMP B) consists of a 2,400 sf bioretention basin which also currently serves to address flow control hydromodification by metering discharge flowrates via a riser structure. With the added impervious surface areas associated with the new hotel and garage, the design capture volume (DCV) from this respective subarea increased from 1,294 cf to 2,356 cf. Updated calculations utilizing the County's BMP Sizing worksheet (V2.0) did determine that the current basin's size could still comply with the County's retention and performance requirements for water quality treatment of runoff. However, the existing basin cannot provide adequate volume capacity when considering that this basin also needs to serve a conjunctive use to addressing flow control hydromodification (HMP) and peak flow (Q100) detention. Preliminary calculations utilizing the County's HMP BMP Spreadsheet (V3.1) indicate that a bottom surface area of about 4,465 sf would be needed to address the volumes for HMP storage. An initial option to achieve this volume could be to expand the existing basin south. However, doing so would require grading and filling along the existing slope and incorporating the runoff from the area tributary to the central discharge location.

The area which currently drains towards to the central discharge location on the west side of Willow Creek consists chiefly of runoff from the waste water treatment plant (WWTP). This subarea drains towards the permeable pavers within the driveway on the east side of the plant. An inlet at the northeast corner of the WWTP collects stormwater runoff from the driveway and directs it to the discharge point at Willow Creek. The pavers are site design features and provide some runoff reduction credit. However, research of past site documents and plans could not conclusively determine whether the pavers within this drainage management area (DMA) were intended to achieve both treatment and HMP compliance for the

respective DMA. Based on the paver's cross section taken from the *Hollywood Casino Loop Road Improvements* plans, it is unlikely that HMP compliance is achieved at the discharge point based on current County standards.

The area tributary to the southern discharge point along the west side of Willow Creek will experience a small area reduction due to the footprint of the new garage structure. The reduction in area will be at the western end of the subarea at the location of the existing biofiltration basin (IMP C). The preliminary revised BMP calculations indicate that a reduced basin surface area of 180 square feet can still meet the retention and performance standards per County requirements. However, similar to IMP B above, based on the County's automated HMP sizing worksheet (V3.1), the basin will no longer have the storage capacity needed to address HMP requirements. Due to the surrounding horizontal constraints of this BMP location and because the amount of needed storage volume is relatively small, a possible treatment alternative at this location could be to thicken the gravel layer below the engineered soil section and essentially utilize it as a cistern for additional HMP storage volume. This option is possible since the existing 18" HDPE pipe depth is sufficiently deep enough to thicken the gravel. The existing catch basin outlet structure will need to be relocated due to the new garage location. Peak (Q100) flowrates per the Preliminary Drainage Study being concurrently prepared, determined that there will be reduction in peak flow rate at the pipe discharge location compared to the existing pipe's design flow as shown on the approved *Hollywood Casino Loop Road Improvements* plans. Therefore, peak flow detention storage is not necessary at this basin location.

See the supporting worksheet calculations included Attachment 3 relative to Analysis 1.

Analysis 2:

In brief, Analysis 1 determined that with the proposed site improvements for the hotel, garage, and pedestrian bridge:

- IMP B could not continue to meet storage volume requirements as a conjunctive basin for water quality, HMP storage, and Q100 detention
- The paver section within the driveway east of WWTP was likely deficient as a HMP BMP measure based on current County standards
- IMP C could potentially be retrofit to marginally achieve compliance with water quality and hydromodification standards

With the information determined above, a conceptual stormwater facilities layout was determined (Analysis 2) for the area west of Willow Creek which could treat the anticipated proposed improvements and comply with County standards for water quality, flow control hydromodification, and peak flow attenuation. Treatment and detention of the casino building on the east of Willow Creek is as described in Section 2.2.1 above.

It was evident from Analysis 1 that basin IMP B would be undersized if it was to be utilized to address water quality treatment and HMP detention. The surface area requirements would require a significant size increase to the current basin and require grading which is already constrained due to the adjacent

floodway limits. In addition, County's requirements for conjunctive use facilities would require additional storage volume for addressing peak flow detention; thus, further hindering this location. After evaluating the various BMP strategies and available footprints, Analysis 2 was conducted and proposes to utilize the existing IMP B basin strictly to address detention storage (i.e., peak flow and HMP) while separately addressing stormwater treatment with a modular proprietary biofiltration device which could be situated just upstream of the basin within the driveway east of the WWTP. By removing the biosoil media and gravel layers currently within IMP B basin, the volume gained would be sufficient for HMP and Q100 detention use. In addition, the calculations performed for this Analysis 2 assumed a single connected storm drain system connecting all areas west of the Willow Creek. That is, all stormwater from areas west of the creek would be treated by means of an underground modular biofiltration device and be routed via IMP B basin to attenuate HMP and Q100 flowrates. This approach would help to address the concerns of the bullet points listed above and subsequent to Analysis 1. Please refer to the calculations in Attachment 4 which include preliminary sizing of the proprietary biofiltration device as well as a SWMM continuous similar model which confirms HMP compliance by IMP B basin.

Section 3 – Conceptual Study Summary and Recommendations

The following summarizes the results of this Conceptual Stormwater Treatment Memo and provides preliminary recommendations for achieving compliance with San Diego County BMP Design Manual requirements. This summary is consistent with the conclusions stated in the *TEIR Preliminary Drainage Study for Jamul Casino Hotel and Event Center Project*.

1. Analysis 1 for the cistern and bioretention basin (IMP A) located at the southeast corner of the casino building determined that, with minimal modifications to these facilities, water quality and detention objectives could be accomplished. That is, the impact of the proposed improvements to the casino consisting of replacing the green roof with impervious roof could be offset with minor adjustments to the existing facilities.
2. All storm drain piping from the casino building should be routed towards to and emptied into the existing cistern located at the building's southwest corner. This includes all existing downdrains. Also, the existing storm drain which collects loop road runoff along the casinos south side should be re-routed to empty into the cistern instead of directly discharging to the creek.
3. The existing basin and outlet structure outside the southwest corner of the casino building should be restored and repaired as necessary to achieve required ponding levels and infiltration rates.
4. Storm drain piping on the west side of Willow Creek should be a connected system draining towards the vicinity of existing bioretention basin IMP B. Prior to emptying into IMP B, a diversion structure should be constructed to divert lower (Q85th) treatment flowrates towards a flow-based modular biofiltration treatment device. Higher flowrates should be routed through the diversion structure and empty into the retrofitted 'IMP B' basin. The changes to the basin will include removal of the biosoil media and gravel sections, essentially creating a deeper basin for detention volume. The current outlet structure will also require modifying to achieve compliance with Q100 and HMP standards.

5. To minimize the size of the proposed treatment facilities west of Willow Creek, site design BMPs such as permeable pavers should be utilized wherever possible.

Thank you in advance. We look forward to your answers to start working together on setting the project's stormwater strategy. Please let me know if you have any comments or questions relative to this memo.

Thank You,



-Raymond L. Escobar
858.345.1278



Attachments:

Attachment 1, Current BMP Site Layout

Attachment 2, Analysis 1 BMP and HMP worksheets for Cistern and IMP A

Attachment 3, Analysis 1 BMP and HMP worksheets for BMPs west of Willow Creek

Attachment 4, Analysis 2 BMP and HMP worksheets for BMPs west of Willow Creek

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Attachment 1
Current BMP Site Layout
Proposed Condition BMP Layout

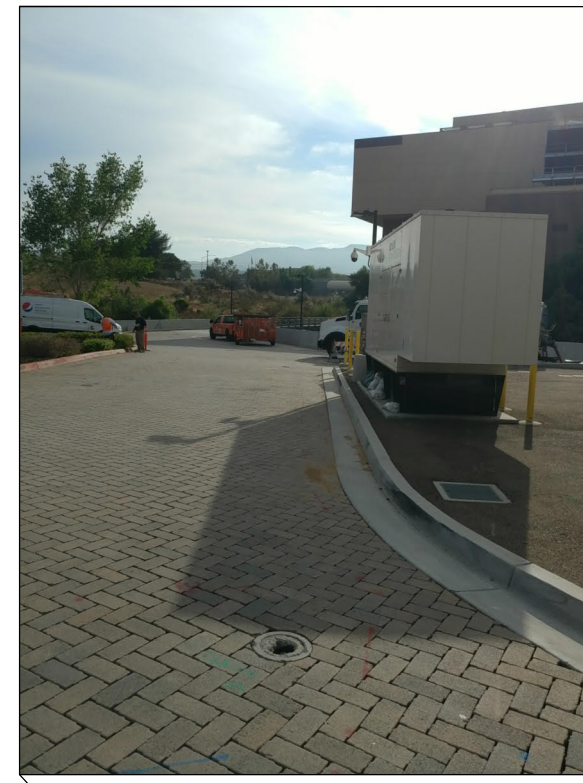


photo by Mike Long, Nova Engineering



photo by Mike Long, Nova Engineering

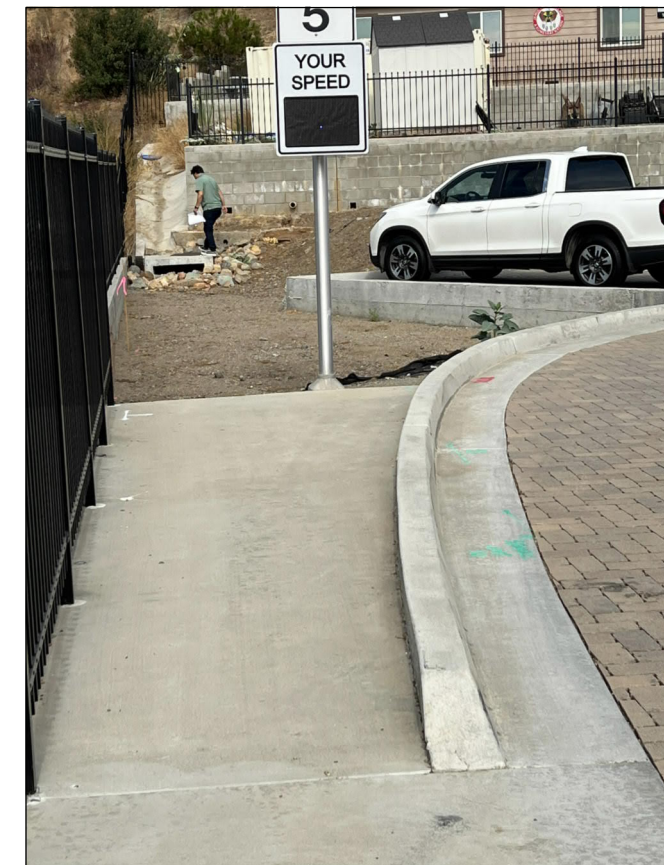


photo by Mike Long, Nova Engineering

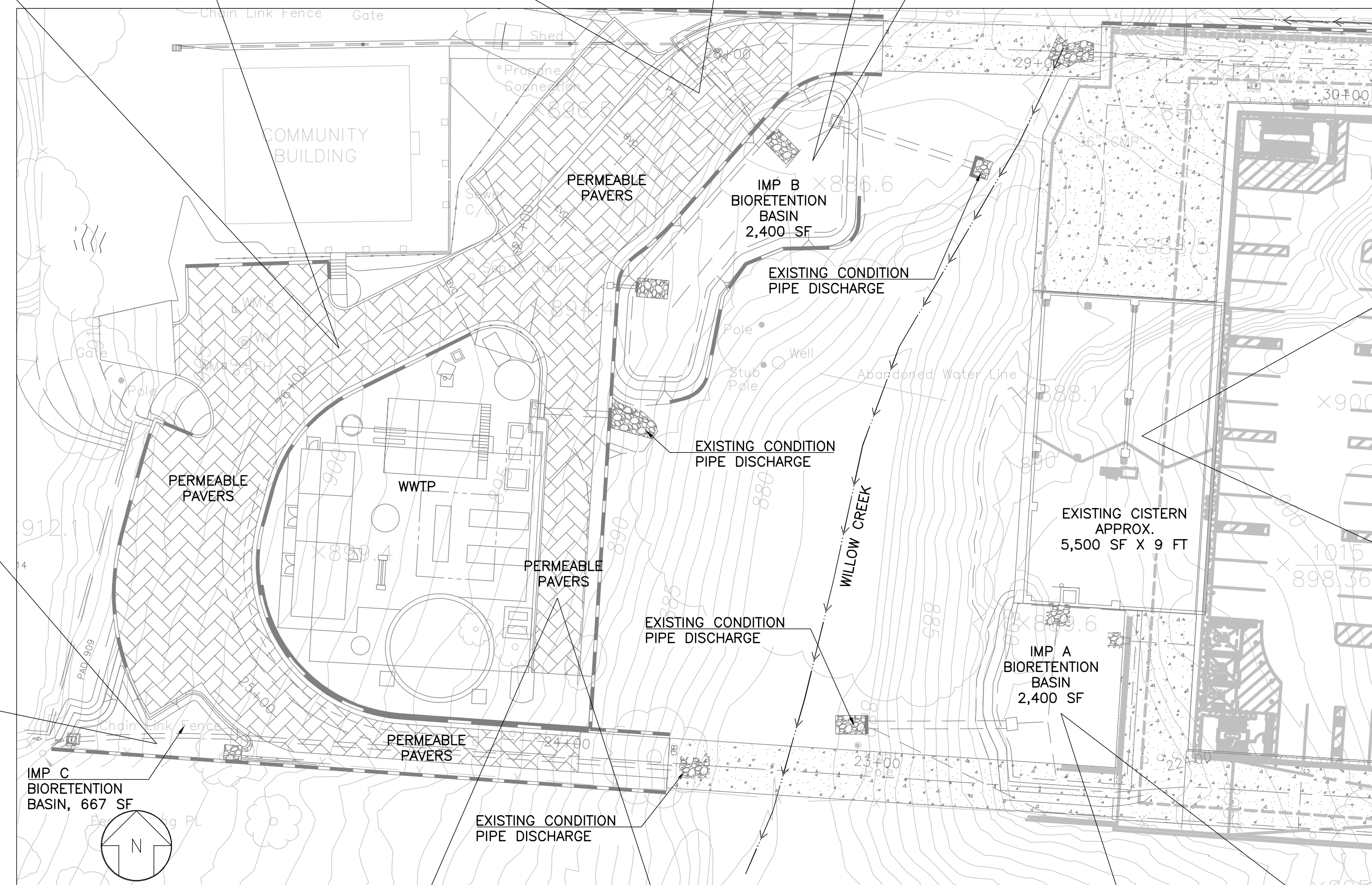


photo by Mike Long, Nova Engineering

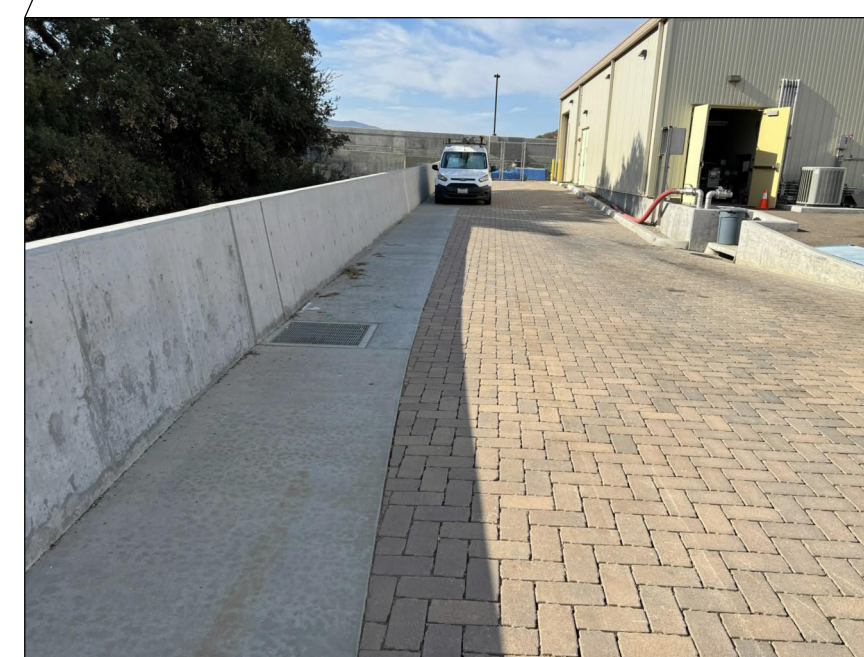
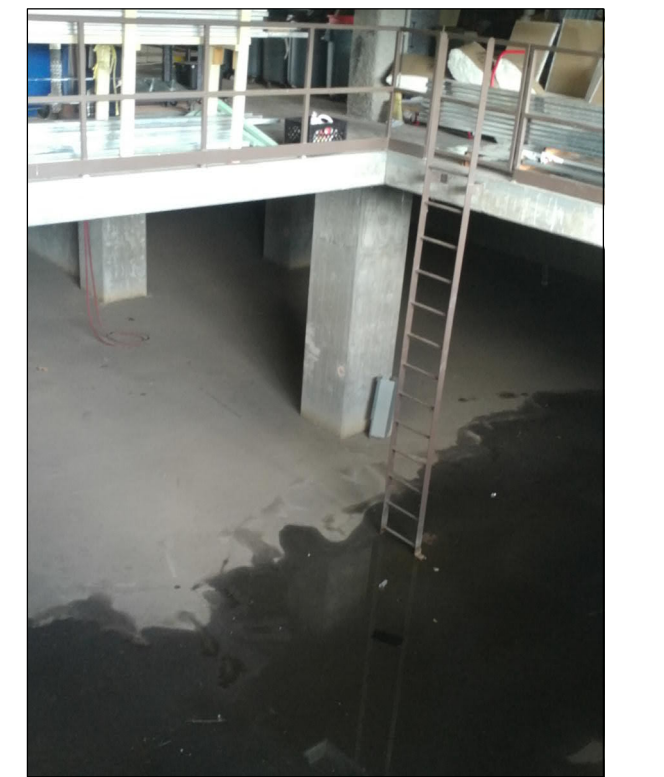


photo by Mike Long, Nova Engineering

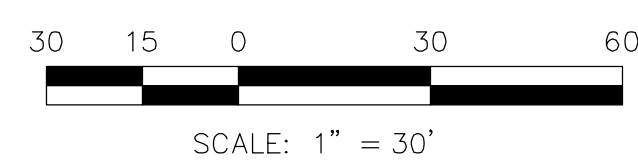
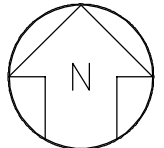
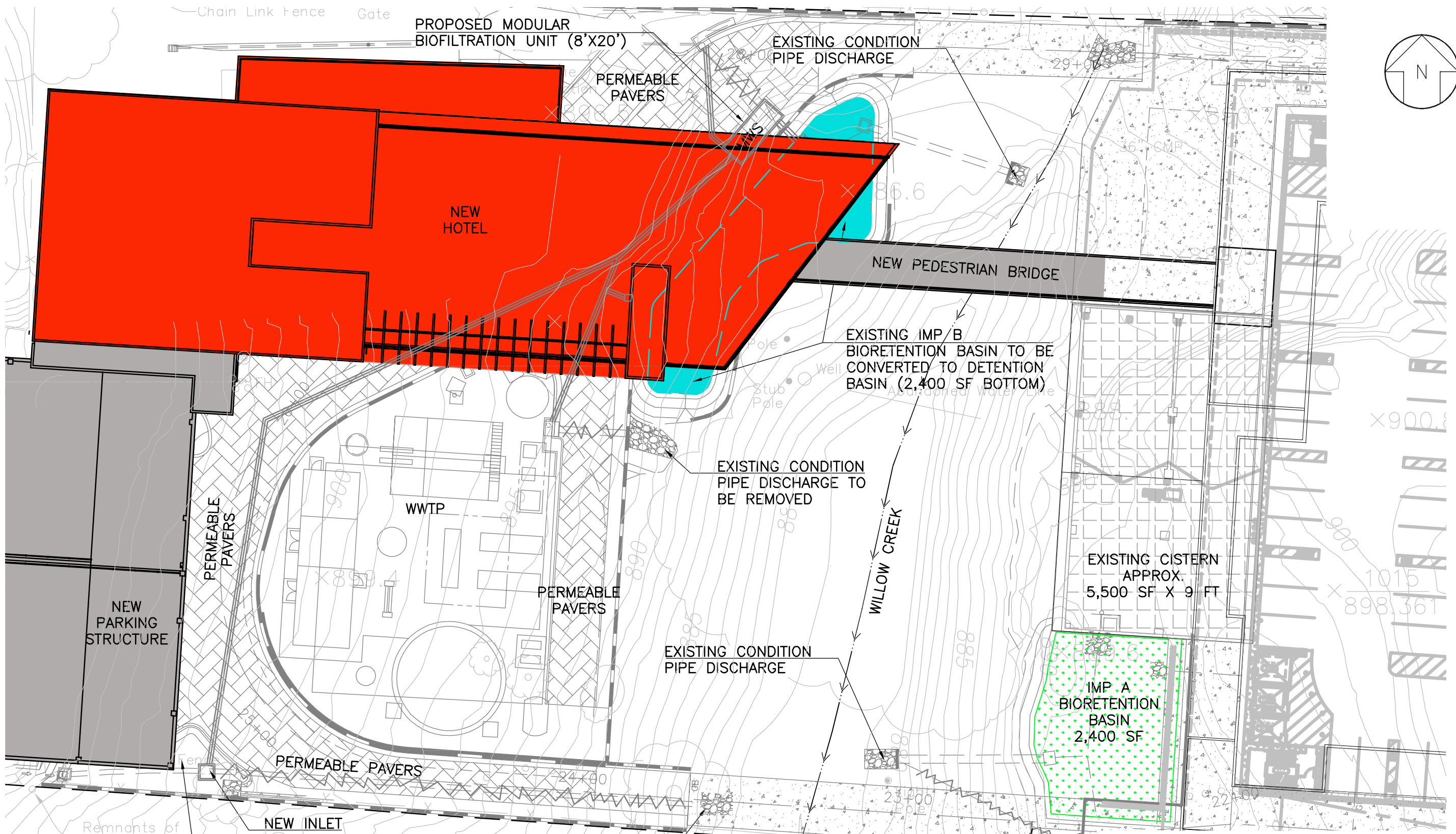


EXHIBIT 1
EXISTING CONDITION
SITE BMPS
JAMUL CASINO HOTEL



SCALE: 1" = 30'

SDE 5481.13

**EXHIBIT 2
PROPOSED CONDITION
SITE BMPs
JAMUL CASINO HOTEL**

Appendix E sub-appendices available upon request.

Appendix F

Casino Fire and Emergency Plan



HOLLYWOOD CASINO FIRE AND EMERGENCY PLAN

Jamul Indian Village



Jamul, California

October, 2016

Prepared By:



FIRE • EMERGENCY MANAGEMENT • ENVIRONMENTAL
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Section I. FACILITY DESCRIPTION

The Hollywood Casino is an enterprise of the Jamul Indian Village, a tribe of the Kumeyaay Nation, and Penn National Gaming. The casino is located on tribal reservation lands in the community of Jamul, California. The Jamul Indian Village Reservation consists of 6 acres south of State Route 94 in Jamul, California. The property includes the 3 story Hollywood Casino and attached 8 story (3 floors of which are below ground) parking garage, a wastewater treatment plant, tribal administration building, a tribal community center, a tribal church, and cemetery. The value of the development exceeds \$400 million dollars. The Jamul Indian Village is surrounded on the east, south, and west sides by California Department of Fish and Wildlife administered lands. State Route 94 borders the property on the north. Onsite security is provided for the casino and related facilities 24 hours/day.

Casino and Related Structures

The Hollywood Casino gaming area includes over 1,700 slot machines, 43 gaming tables, and 8 lounges and restaurants. The casino does not offer overnight accommodations or large entertainment venues. The casino and attached parking garage is a large and tall building, but only includes selected fire and life-safety features that are commonly associated with high-rise structures in California. The parking garage can accommodate 1,800 vehicles.

Tribal Facilities:

Three separate buildings are located on the west-end of the compound. A one-story tribal community center, a one-story tribal administrative office, and a small tribal church are located here. An historical tribal cemetery is located on the west end of the property. The wastewater treatment plant is located immediately west of the casino. These are all non-public areas.

1. BUILDING FEATURES

Casino Layout

The Hollywood Casino is a 203,000 square foot, three story, fire resistive structure, with 73,000 square feet of gaming area and a guest maximum occupancy of 5,500 persons. 300-400 employees are onsite at any one time. Guest access occurs on floors C1 and C2, with administrative support on floor C3. The roof area is referred to as floor C4. The primary gaming area is on floor C1. The main casino floor has an 18 ft. ceiling, with a center core atrium housing two reversible escalators between floors C1 and C2. Interior building length (E-W) averages 536 feet; building depth (N-S) averages 220 feet.

The casino utilizes propane as a natural gas alternative, and is supported by onsite hot water boiler and water cooler facilities, and heating, ventilation, and air conditioning (HVAC) systems. The casino maintains domestic water and electrical connections with municipal utility companies.

Key locations within the casino

A rear corridor (aka: "Back of House") provides access on floor C1 behind most of the casino facilities.

All restaurants are located on floor C1, including:

- a. Final Cut Restaurant, Lounge, south wall-center floor (includes kitchen, main & private dining room)
- b. Tony Gwynn's Sports Pub, west wall
- c. Food court, north-west wall. Common main kitchen. (Includes: Ruby's Dinette, Tres Taqueria, Pizza Port, Hollywood & Grind)
- d. Emerald's (Noodle Bar), kitchen

Additional facilities on floor C1:

- a. Jive Bar Lounge and stage, north wall, center building
- b. Rodeo Drive Gift Shop, east wall.
- c. Cage, mid-north wall
- d. High Limit Gaming- Floor C-1, south side

Facilities on Floor C2:

- a. Loft 94 Beer Gardens/patio bar, top of escalators, east wall. (C2 consists of a partial floor-loft only)

Administrative offices are located on floor C3, including:

- a. Security, south-west areas, rooms 037-041 Includes full facility surveillance camera array
- b. Detention/Interview, adjacent to Stair 1, room 045.
- c. Medical treatment, in Security area
- d. Administrative Offices, Mailroom, east end
- e. Training, rooms 100/101
- f. Human Resources, room 030
- g. Exercise room, room 022

General Building Facilities:

- a. Boiler room, floor C3, west end of building, room 046
- b. Water chiller, Parking structure, floor P7, west end of building
- c. Elevator control rooms-Main elevators: floor P8 near the Fire Control Room. Service elevators: Floor C1 adjacent to elevators. The Beer Garden elevator on floor C2 has a control room on floor P8.
- d. Parking adjacent to main electrical room, south side of facility, floor P4.
- f. Main electrical room, west end of casino, floor P5
- g. Loading dock, north side of casino, floor P4 (Ambulance entrance)
- h. Small loading dock, next to main electrical room, south side of structure, floor C4

- i. Ambulance entrance: Main loading dock (P4-North), small loading dock (P4 south), or main lobby entrance (P8), as directed by security.
- j. Main water shutoff, on service road, casino northeast corner.

Parking Garage Layout

The attached parking garage is 8 floors (P1-8). Floor P1 is the bottom floor and P8 is at the lobby level. Floors P1-3 are underground, with a total of 1,800 parking spaces, up to 250 spaces per floor. Vehicle entry into this structure is from floor P-8, and vehicle exiting is from floors P4-7. Each floor is approximately 2 acres in size. The parking garage and casino share the same roof. Floor height is 10 feet between parking floors, however maximum vehicle access height is 7 feet due to other ceiling level obstructions. Interior building length (E-W) averages 536 feet, building depth (N-S) averages 220 feet.

- Valet Parking:
 - a. Parking floor P8 entire floor, P7 & P6, east half
 - b. Valet pickup, parking floor C6, north-east exit.
- Parking Entrance: Floor P8- north side of building
- Parking Exits: Floor P7, P6, P5, P4- All exits are on the south side of the building

Onsite Road/Bridge Access

Roads and bridges in the casino complex are rated at a minimum of 75,000 pounds, or 37.5 US Tons. Service roads surround the south and east side of the casino and parking garage; however, the west side is unavailable to vehicle access and the north side/front entry is highly obstructed. The south-east corner of the casino has a 90 degree turn in its service access with a 14 ft. overhead obstruction. Congestion is likely in an evacuation where private automobiles will be exiting the casino. In this case it will be important for Casino Security and Law Enforcement to manage traffic flow and preserve emergency vehicle access.

Roof Access

Aerial ladder access to the roof of the casino/parking garage is available from the North side of the building (from bridge accessing floor P-8). The height from this location to the rooftop parapet is 68 feet. Aerial ladder access may also be available to a casino rooftop patio bar deck (height 53 feet above access road) on the east side of the casino; however, this location has significant access restrictions due to roadway width and overhead obstruction. Roof access via stairwell may be obtained via stairwell 8. A built-in roof ladder accesses the roof above the boiler on the west end of the structure, adjacent to the boiler room.

2. FIRE COMMAND CENTER

The Fire Command Center (aka: Fire Control Room) is located in the northwest corner of parking garage, floor P-8, adjacent to the main parking entrance, and serves both the casino and parking garage. The Fire Command Center is equipped with alarm annunciator panels, evacuation public announcement system, elevator control systems, smoke ventilation systems/stairwell pressurization status panel, emergency lighting controls, building plans, and facility keys.

Firefighter Access Keys

Seven (7) sets of casino keys for firefighter use are stored inside the Fire Command Center. These key sets include a master key and an elevator over-ride key (Labeled "Cal-Fire 01-07"). These keys will access most areas of the casino except the "Rack Room" and related sensitive locations. For these locations Casino Security will generally need to escort firefighters. A lock box is located outside the Fire Command Center door for emergency access. This lock box contains: 1 master key card, 1 "A" master key, and 1 "B" master key for the facility (labeled "Cal-Fire Masters"). These keys will enable access to all areas of the casino, including sensitive areas. Security for these keys is essential, and responders need to provide extra diligence to return these keys to proper secure storage after each use.

Fire Alarm Panel

The central fire alarm panel provides for indication of the type and location of fire alarms, allows for manual silencing or reset of alarms, and facilitates emergency communications.

Fire officers arriving will need to take written note of the fire alarm conditions reported in the green alarm window. An active alarm will also be lit in the "ALARMS" lights on the left, under the green window. System trouble would be indicated by lights under the SYSTEM WARNINGS lights on the right.

Multiple alarms may be indicated, but only one alarm may be described at a time. Multiple alarms may show warning lights under the ALARMS lighting in both the Fire Alarm and Priority 2 alarm sections.

The Fire Officer should take note, then press the appropriate "acknowledge" ("ack") orange colored button once, and inspect the green text box for additional alarm descriptions. If there are additional alarms described, repeat this process until all alarms are known. Press acknowledge on all alarms in both the fire alarm and priority 2 areas, and record all alarms in writing.

Digital fire alarm read-out, alarm silence and reset function



Single alarms (fire, smoke, etc.) must be inspected but does not indicate the certainty of fire. The indication of a trouble alarm is usually an indication of system trouble or malfunction, but the alarm source should continue to be investigated until proven to be a non-emergency.

Multiple and redundant alarms, indicating presence of fire and smoke in one or more locations should be considered as a working fire, and actions going forward should be based on that premise until proven otherwise.

Fire Alarm Zones

The fire alarm system is separated into two zones:

Zone 1: Floors C1-4, and floor P-8 elevator lobby (Casino and entry).

Zone 2: Floors P1-8 (parking garage).

Fire alarms and related building fire protection systems will only activate for areas within the zone of the alarm.

Fire Alarm Codes

The following types of codes are annunciated at the alarm panel in the Fire Command Center:

- a. Smoke

- b. Heat Sensor
- c. Waterflow (sprinkler or standpipe activation)
- d. Duct Sensor (Smoke)
- e. Manual Pull (only one, in Fire Command Center)

Alarms annunciated at the alarm panel will include a type of alarm, followed by the building location. A full list of possible alarms will be maintained in the Fire Command Center.

If the fire alarm system does not activate automatically for a fire or smoke condition, the entire system may be activated by activation of the building's single manual pull station to the right of the annunciator panel.

Alarm Silence Switch

The alarm silence switch will silence audio alarms both at the panel and any audio alarms being voiced within the building. No alarm may be silenced manually until building staff is on scene of the reported incident and indicate no fire or smoke is visible.

Security or building services staff may activate a "silence alarm switch" prior to the arrival of fire department staff only when they have reason to believe that such an alarm is false. This requires the presence of building staff on scene of the reported fire location who confirm that no fire or smoke is immediately visible.

In the presence of continuing fire or smoke alarm, a silenced alarm may return automatically into an active mode.

Alarm Reset Switch

The System Reset switch resets the alarm panel to the original "ready" mode. The system reset will not function if the alarm panel continues to detect a fire or smoke condition. This function should not be activated by building staff without fire department's review of the active alarm. Exceptions may occur, such as when a fire alarm is transmitted, but determined to be of accidental nature (i.e.: waterflow alarm caused by a sprinkler head damaged by a forklift, or similar event).

Once fire department staff are onsite of a reported alarm location and indicate they believe it is a small contained incident or false alarm, the Fire Officer in the Fire Command Center may attempt a system reset. A return of all systems to a standby-ready status, with no alarm reactivation is generally an indicator that the alarm event is concluded. However, in all cases, reports of alarms should be thoroughly inspected at the source prior to incident closure.

Alarm History

Alarm history can be re-read, even after a system reset. To retrieve historical alarm data, use the annunciator panel scroll switch to select “Historical Alarms”. These alarms will be listed by last alarms first. Enter the following:

- a. Alarm Log, then ENTER
- b. Read alarms displayed
- c. Scroll through alarms to capture all alarms displayed in alarm event.

Active fires will quickly re-trigger alarms following a “System Reset”. However, the temporary loss of notification, smoke management, and elevator controls due to premature system reset can jeopardize human life.

Smoke Control Panel

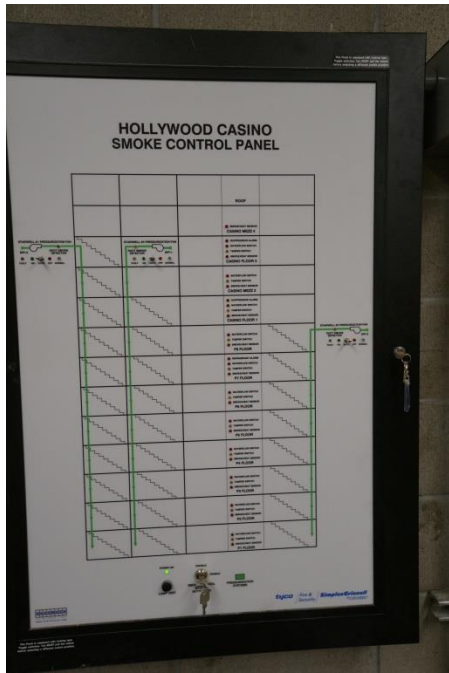
A smoke management system provides for smoke and fire alarms, and activation of stairwell pressurization fans to prevent smoke intrusion for three building stairwells 1, 2 and 9. The Smoke Control Panel controls this system and despite similar marked spaces on the adjacent fire annunciator panel, which are not in service, the Smoke Control Panel is the only panel to annunciate or control these specific systems in the Fire Command Center.

When any smoke or fire detector is activated in the casino or parking garage, all 3 stairwell pressurization systems will be activated. A “system on” light will be lit on this panel, indicating fans are pressurizing the stairwells. This system is always in the “standby-ready mode”. The panel is equipped with a key switch on the bottom which should always be switched to the “enable mode”.

In the event that smoke will be exhausted using parking garage exhaust fans, it is essential to ensure stairwell pressurization is operating first to prevent smoke migration into the casino. In the event that stairwell pressurization does not occur automatically, it will be necessary to manually activate this system.

Manual activation is accomplished by applying a light pull outward to the toggle switch associated with the desired stairwell’s system, then directing the switch to the “on” position. This process should be repeated for each the three stairwells as required.

Smoke Control Panel and Detail



Elevator Controls

All elevators in the casino and parking garage are electric powered. Elevator controls for two banks of elevators are found within the Fire Command Center.

Elevator control banks in Fire Command Center



Fireman Service is available for all elevators. A key switch will enable activation of Fireman Service and recall all elevators to floor P-8. If the fire alarm is activated for floor P8, the elevators will alternatively recall to floor P7. Further movement of elevators will require elevator keys in individual lifts and be subject to manual controls.

Emergency Generators

Facility backup power diesel generators supply power to all casino lighting, emergency lighting, and the majority of parking garage lighting. It has a 3-day fuel supply. Should they fail to automatically operate, manual activation switches are located in the Fire Command Center.

Audio Communications Systems

Both recorded evacuation messaging and voice loudspeaker messaging may be managed from the Fire Command Center. Located below the alarm digital readout panel is a microphone and select-to-talk switching.

Communications Panel



Evacuation messaging for the entire building, including the parking structure, will automatically activate upon activation of fire and smoke alarms. They will activate for areas of the casino or parking garage that are in alarm mode only, unless manually over-ridden for an “all-call” broadcast.

Activating an all-call Emergency Broadcast

An automatic and generic emergency broadcast directing guests to move to evacuation stairwells and leave the building may be manually broadcast to all casino and parking garage floors by activating the “All Speaker Evac” button on the messaging console.

Selective Emergency Broadcast

Selective automatic and generic emergency messaging may be manually activated using the “Selective Evac” button on the massaging console. Additionally, buttons must be selected for floors where broadcasting is desired by activating the button for floors C-1 through 3 or P1-8.

Manual Broadcasting

To manually operate the public address system, select “Speaker Talk”. Then wait until the green light for “Ready to Speak illuminates. This will allow the user to then communicate as desired throughout the building and parking structure.

To select a particular floor or area to message, select “Local Speaker”, then select the appropriate floor from the panel, then select “speaker talk”. Then wait until the green light for “Ready to Speak illuminates. This will allow the user to then communicate in selected areas.

Alarm System Failure

Should an alarm system fail to reset or show “system trouble”, an alarm company will need to be called to service the system. The casino should require the establishment of a dedicated “Fire Watch” to both conduct active walking patrol, and physical system observance until the system is restored in full.

Radio and Internal Communications

An onsite repeater system will boost 800 MHz radios used within the Parking Garage and casino. Cal Fire-San Diego County Fire Authority has placed a communications kit inside the Fire Command Center for firefighter use.

Parking Garage Speaker System

The parking garage has messaging boxes that communicate to Security Dispatch on floor C3 (They do not communicate directly to the Fire Command Center). They are located on each floor of the parking garage at two locations. The boxes are marked by a bright blue light. Activating the system will broadcast a picture of the caller to Security and allow direct voice communications.

3. FIRE SPRINKLERS AND STANDPIPES

Fire Sprinkler Systems

The entire casino and parking structure share a common fire-sprinkler/standpipe system. It is supported by domestic water supply alone; no facility fire pumps or additional onsite reservoirs supplement this system. Any boost in pressure or supply to the system must be provided solely by fire apparatus by connection to the Fire Department Connection. While domestic water supply is sufficient to support the activation of a single sprinkler head, activation of multiple sprinkler heads must be

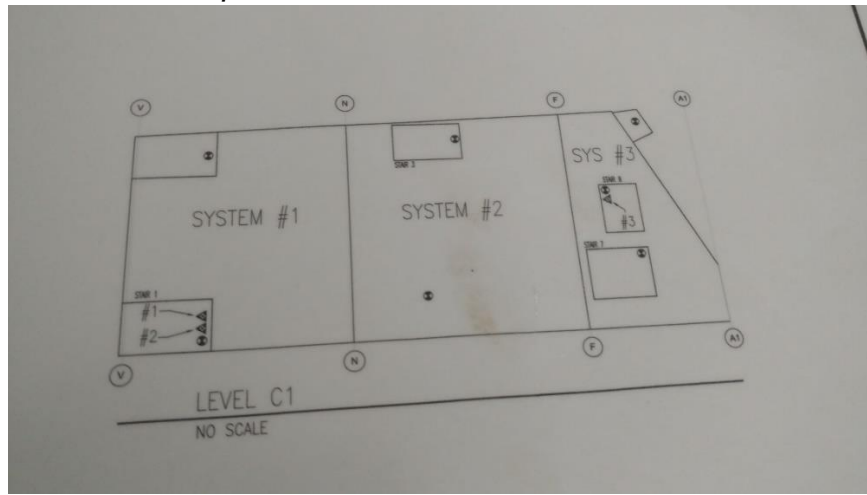
supported by fire apparatus pumping or risk ineffective fire flows to hold an aggressive fire. The sprinkler system is separated into three zones:

- Zone 1: West 1/3 of the casino and parking garage
- Zone 2: Center 1/3 of the casino and parking garage
- Zone 3: East 1/3 of the casino and parking garage

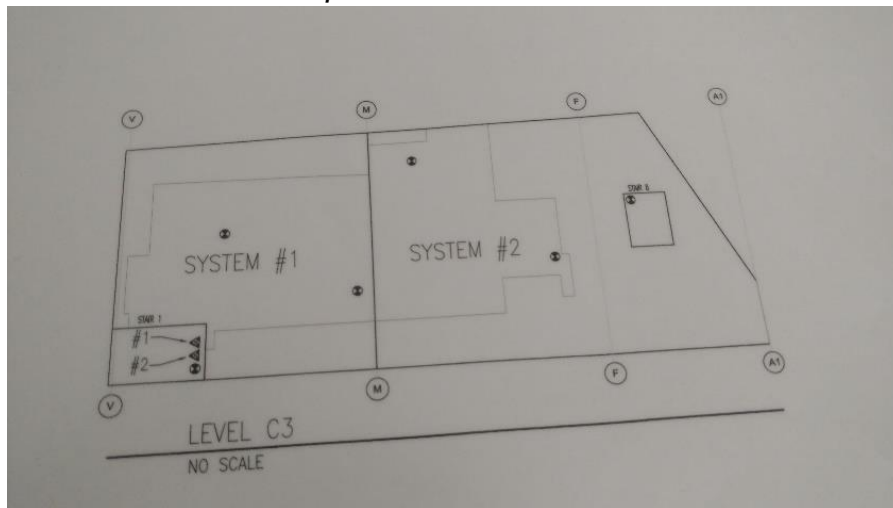
Sectional valves for fire sprinklers are available for 1/3 of each floor, and may isolate water flow. These valves are located:

- Zone 1: (West 1/3 of building): Stairwell 1
- Zone 2: (Center 1/3 of building): Stairwell 1
- Zone 3: (East 1/3 of building): Stairwell 3 for floors P1-8, then Stairwell 8 for C1-3

Fire Sprinkler Zones- Floors C1 & C2, P1-8



Fire Sprinkler Zones- Floor C3



All system valves are set to “open” and are ready to support firefighting operations. Spare sprinkler heads and tools are stored in the Fire Command Center. Numerous boxes contain sprinklers of all sizes, design, and GPM output that are used in the casino. Be sure to match the replacement head exactly with the style of head to be replaced.

Typical stairwell standpipe connection (left) and fire sprinkler sectional valve (right)



Some of the spare sprinkler head storage in the Fire Control Room



Fire Department Connection (FDC)

The FDC allows fire apparatus to boost pressure and supply to the fire sprinkler and standpipe system. The single FDC supports both the casino and parking garage. It is located adjacent to the Fire Command Center, near the parking structure entrance on floor P8. The 4 FDC intakes all provide water to the common sprinkler and standpipe system, (No one port is related to any one part of the system). To ensure adequacy of

fire flow for working fires, all intakes should be supplied. *The maximum pressure and volume for this system to be supplied by fire apparatus is 1,000 GPM at 165psi.*

A fire hydrant is located immediately across the driveway from the FDC. The fire apparatus supplying the FDC should connect to multiple fire hydrant discharges to support system volume requirements.

Door to Fire Command Center, at the north parking entrance on floor P8, showing the adjacent Lock box and Fire Department Connection.



The Fire Department Connection with fire hose connected for supply



The nearest Fire Hydrant to the Fire Department Connection, located immediately east of the FDC, across the driveway lanes. This entry and will be blocked by fire apparatus when in use.



Fire Standpipes

Wet standpipes are located in most stairwells and in boxes on floors C1 and C3. (see maps).

STANDPIPE LOCATION	LOCATION In BUILDING	CASINO FLOORS SERVED	PARKING FLOORS SERVED
Stair 1	SW corner	C1 & C3	P1-8
Stair 2	NW corner	C1	P1-8
Stair 3	N Center	C1 & C3	P8
Stair 4	Center Core	C1	P8
Stair 5	Center Core	C1	P8
Stair 6	NE corner	C1	P8
Stair 7	SE corner	C1	P8
Stair 8	SE corner	C1, C2, C4	P8
Stair 9	SE corner		P1-8
Floor C1	Across from Steak House	C1	
Floor C1	Stairwells (6)	C3	
Floor C2	Stairwell (1)	C2	
Floor C3	Hallways (3)	C3	
Floor C3	Stairwells (3)	C3	

The standpipe and sprinkler system are inter-connected. The system is supported by domestic water pressure, unless augmented by a fire engine on the Fire Department Connection. All standpipe connections are a single 2 ½ inch discharge with National Standard thread.

Additional standpipe cabinets are located in the Parking Structure and on casino floors as follows:

- a. 3 on each parking floor: Mid- west side, and north-east quadrant
- b. Floor C3 in NW and SE hallways
- c. Floor C1, SE corner- near Steakhouse entrance

Hose lays of up to 550 feet may be required to stretch fire service lines from a stairwell standpipe to the opposite side of most floors. 225 feet will generally reach the maximum halfway point to the next standpipe.

The Outside Stem and Yoke (OS&Y) valve serves as a master shutoff for the building's fire sprinkler and standpipe system. It is located outside the Casino, on the northeast side service road.

Fire Hydrants

Six (6) fire hydrants are located on roads surrounding the casino/parking garage, and 1 is located adjacent to the Wastewater Treatment facility. Hydrants are located as follows:

1. Floor P8 north (near FCC)
2. Floor P8 south- near exit
3. Floor P6 south driveway access
4. Floor P4 north driveway access
5. Adjacent to (west of) waste-water treatment facility,
6. On Reservation road, near the water main shutoffs.

Emergency Fire Flow

Each onsite fire hydrant has a reasonable expectation of 1,500 GPM fire flow, with a static pressure of 152 PSI. A maximum fire flow of 5,000 GPM (from multiple hydrants) will result in a residual pressure of 109 PSI. Reservoir capacity in the area can deliver the maximum fire flow for a four-hour duration. The Otay Water District should be immediately notified of any major fire affecting the casino. (619) 670-2222.

4. STAIRWELLS

Stairwells

Eleven stairwells are included in the casino and parking structure. Stairwells have a 1-hour fire rating. Stairwells 1, 2 and 9 are equipped with positive pressure stairwell pressurization systems. These systems activate upon detection of fire or smoke by the fire protection system. The system can be calibrated between 2,500 and 2,000 PSI, and is currently set for the 2,000 PSI airflow.

STAIRWELLS / STANDPIPES					
STAIR	LOCATION	CASINO FLOORS SERVED	PARKING FLOORS SERVED	STAND PIPE	NOTES & Planned Use
Stair 1	SW corner	C1 & C3	P1-8	Y	Primary Fire Attack- C1, C3, & Parking/Ambulance Entrance. Pressurized when smoke/ fire detected. Sprinkler sectional valves- Zones 1 &2.
Stair 2	NW corner	C1	P1-8	Y	Primary Fire Attack-C1 & Parking. Pressurized when smoke/fire detected.
Stair 3	N Center	C1 & C3	P8	Y	Exit.
Stair 4	Center Core	C1	P8	N	Exit
Stair 5	Center Core	C1	P8	N	Exit
Stair 6	NE corner	C1	P8	Y	Exit
Stair 7	SE corner	C1	P8	Y	Exit
Stair 8	SE corner	C1, C2, C4	P8	Y	Primary Fire Attack.- C1, C2, C4 Only stairs with roof access.
Stair 9	SE corner		P1-8	Y	Primary Fire Attack-parking only. Pressurized when smoke/fire detected. Sprinkler sectional valves-Zone 3.
Stair 12	SE corner	C1, C2			Beer Garden Access

5. ELEVATORS

All elevators are electric powered. Both service and public elevators are provided in 3 building locations:

- a. Main Elevators (public) 1, 2, 3, 4, serving casino floors C1 & C3 and parking garage floors P1-8, building center core
- b. Service Elevators: SE1, SE2, SE3- serving casino floors C1 & C3 & parking garage floors P1-8 (Except floor P4), southwest corner
- c. Service Elevator SE4: Casino, south east corner, C1 & C2 (beverage movement)

All elevators have fireman service, and can be recalled from the Fire Control Room. Elevators will recall in fire alarm mode to floor P8, or alternately floor P7 if P8 is in the fire alarm mode.

Elevator "Smoke Guards"

The elevator lobbies within the parking garage, C1 elevator lobby, and C1/C3 elevators ("Back of House") are protected by "Smoke Guards Systems", which are curtains that drop down to protect elevator and corridor openings from smoke intrusion, upon smoke

detector activation. The guards deploy when smoke is detected locally, and only for the area where smoke is detected.

Elevator Control Rooms

Controls for guest elevators are located in a room on floor P8 near the Fire Control Room. Service elevators have a control room on floor C1 (next to the elevators). The Beer Garden elevator on floor C2 has a control room on floor P8. Switches in these rooms can turn-on/off electric power to the elevators. Once power is shut-off, Fireman Service will no longer operate the elevators.

Elevator Rescue

Rescues of persons trapped in elevators requires special tools, processes and training. This can be a hazardous process, and has resulted in fatalities in other jurisdictions when performed without proper training and safety procedure. Rescues must always be performed with main power shutoff and the elevator car immobilized. In the event fire or facilities staff on hand lack proper training, call for elevator company assistance to conduct rescues.

6. VENTILATION and AIR HANDLING

The casino is equipped with a HVAC system and a garage exhaust system. Due to air movement and ducting, smoke from working fires may show at locations which do not indicate the specific location of fire, but it will likely indicate the location of system exhaust ports.

Casino Emergency Ventilation

The casino has an HVAC system that routinely exchanges air on all floors. It is important to ensure the casino HVAC system is set to recirculate air or turned off rather than import outside air to control smoke intrusion during any fire where smoke may be imported into the structure, including nearby wildland fires. Seek facility engineering to accommodate this need.

The HVAC system may be used to support casino smoke ventilation, however facility engineers may have to overcome fire and smoke detection systems in order to accommodate this.

No removable skylights, wall panels, or windows exist to support emergency ventilation, however patio decks with large openings are located in the Beer Gardens on floor C2 and the Steakhouse on floor C1. Otherwise, ventilation through doors and shafts using traditional fire service methods will be required. Breaching of walls, roofs, or related means should be used only as a last resort.

Vehicle Exhaust Management System

The parking garage exhaust system will import fresh air and discharge vehicle exhaust contaminated air under normal operations to floors P1-8. The system is equipped with fire and smoke alarm systems designed to automatically detect and shut off this system in the presence of fire or smoke. This system includes mechanical exhaust ports located on the casino exterior.

Parking Garage Emergency Ventilation

In the event of a fire, zero visibility and potential IDLH smoke conditions may develop rapidly within the parking structure, posing critical risks to civilians and firefighters alike. *In the event of a fire, Casino Security must immediately restrict all pedestrian and vehicle access to the parking structure.* Large commercial fans may be needed to ventilate smoke volumes; traditional fire service fans will be generally inadequate due to their inability to move such large air volumes.

The parking garage lacks a specifically designed smoke management system; however, it does have the vehicle exhaust management system which can be manually operated to vacate smoke. This system has no ductwork connection with the casino. The system can be used to exhaust smoke from the garage, but only with certain conditions. These conditions are established to prevent transfer of smoke and fire from garage into the casino, and include:

- a. The fire must be confirmed as out, and smoke must have cooled to a point to ensure no further fire propagation.
- b. All stairwells and elevator shafts are to remain closed.
- c. The stairwell fire pressurization system (stairwells 1, 2 & 9) must be turned on and remain operational while garage exhaust fans are operating.
- d. Visual monitors should be posted on upper casino floors.
- e. Fire alarm systems must be active and capable of new fire/smoke detections (system not reset or turned off).
- f. Casino exterior patio doors for the Steakhouse (floor C1) and Beer Gardens (floors C2) must be closed. These patios are situated above garage exhaust ports and have the potential to intake exhausted smoke under certain conditions.

The garage exhaust system may then be manually switched into the “on” position on each of 8 units, and operated until smoke is cleared from the garage.

Typical ventilation fan enclosure in parking garage



Turn on manual switch in exhaust fan cage to exhaust air



Petroleum fuel powered fire department fans should not be operated within confined spaces, as they will introduce carbon monoxide from the engine exhaust into the space, and are generally of insufficient capacity to reduce trapped smoke volumes from a vehicle fire.

The garage should be monitored for carbon monoxide concentrations following fires, even once the floor appears generally clear. Respiratory protection should be worn by responders, and civilians should be barred from entry, until such time as carbon monoxide and other pollutant levels have been confirmed as non-IDLH.

7. SPECIALIZED FIRE PROTECTION SYSTEMS

Fire Walls and Dampers

Fire wall separation between the parking garage and casino is provided by 1-hour rated glass doors in elevator lobbies, 1-hour fire doors for stairwells, and 2-hour separations for each building floor. Fire dampers are located within ductwork in 5 locations: 3 in the Rack Rooms and 2 in the horizontal exit in the middle of the structure on floor C3. These dampers provide 2-hour rated fire barriers.

Special Systems

Seven commercial fire protection systems are found in data management rooms. These systems are located:

- a. 2 systems on casino floor C-3; rack rooms
- b. 4 systems on parking garage floor P-8; IT rooms
- c. 1 system in the wastewater treatment facility

These rooms are equipped with *FM200* fire suppression systems. *FM200* is an environmentally safe, non-electrically conductive fire suppression agent which leaves no damaging residue on electrical components. They are supplied by stand-alone pressurized agent bottles mounted upright in affected room corners. When exposed to high temperature, *FM200* generates highly acidic gases and firefighters should be protected against *FM200* and other products of combustion with breathing apparatus until ventilation is completed. Avoid skin contact with *FM200* liquids due to frost hazards.

Commercial hood and duct fire suppression systems are located in all kitchens. These are independent systems for each individual site.

8. SALVAGE and DE-WATERING

Casino De-watering

Limited drainage exists within the casino for fire suppression water. Potential methods include use of kitchen floor drains, removal of toilets for plumbing pipe access, use of stairwells and elevator shafts, or use of water vacuum equipment. Channelization of water using salvage covers, plastic sheeting, or other equipment may assist in water management.

Parking Garage De-watering

Limited drainage exists for the parking garage. Parking levels P4 through P8 have access to driveways where water may be manually moved. Parking levels P2 and P3 have no floor drains. Parking level P1 has a single floor drain in the northwest corner of the garage for drainage of floors P1-3.

Use of Elevator Shafts

Runoff water may be directed into elevator hoist ways where it will be transferred by sump pumps into the waste-water treatment facility. It is CRITICAL that electrical power be turned off to elevators used for this purpose for safety. Notify facility engineers that such action is being taken so they may best manage intake at the waste-water facility. The parking structure floor P1 has a water drainage intake, located in the northwest corner of the facility below an exhaust fan unit. P2 and P3 have no floor drains.

Floor water drain, NW corner of Floor P1



Drainage Avoidance

There are 6 manhole covered sumps and lift pumps in the northwest corner of the parking garage on various floors that are not to be used for fire drainage. These locations drain into a sump area, then directly into an open creek outside the casino. This cover should be isolated by berming, when possible, to avoid discharge of fire products or other environmentally harmful products into the environment. The opening covers are marked “sewer” and are locked within fenced areas of floors P1 and P4-P8 of the parking garage.

Sewer cover and sump pump - DO NOT USE FOR FIRE DRAINAGE



9. UTILITIES

Propane:

A propane-air mix is used as a surrogate to natural gas in this facility. A main propane supply line manifold and tank is located near front entrance to the casino on Floor P8.

A 30,000-gallon propane tank is located on the west side of the entrance driveway. Emergency propane shutoffs are located in three (3) locations along the entry road into the main entrance, (Roadside, at top-side valves, and on ground at bottom of tank)

Emergency propane shutoff sign and toggle switch on rear of sign on main entry bridge



Emergency propane shutoff assembly near tank on entry road bridge



Electrical Shutoff:

Main panels are located in the main electrical room on the southwest side of the parking garage, floor P5, west end of the building. Consult facility engineering staff prior to any electrical shutoff at the main panel.

Facility main power shut-off is the far left bank of these 4, with a single throw switch on the left. The bank is the furthest north in the main electrical room.



Water Shut-off

The Outside Stem and Yoke (OS&Y) valve serves as a master shutoff for the building's fire sprinkler and standpipe system. It is located outside the casino, on the northeast side service road. The main domestic water shut-off for the casino is located immediately next to the OS&Y valve, with the OS&Y nearest the driveway, and the main domestic water shut-off located nearest the wall. There are no Post Indicator Valves (PIV) in the sprinkler/standpipe system other than sectional valves in the stairwells.

OS&Y (front) and main water shut-off (smaller and behind OS&Y) for casino



Water shut-off: Parking Garage

The main water shutoff for both domestic water and fire sprinklers in the parking garage is located on floor P6, north side.

Floor P6: Fire risers are the bottom white/gray assembly; cold water is the copper pipe above.



Hot water boiler/water heater: is located in the casino on floor C-3, west end of the building (room C3-046). Emergency boiler shutoffs are located within the boiler room and immediately outside the boiler room door.



HVAC systems: Heating, Ventilation and Air Conditioning (HVAC) units are located on the roof (floor C4). Each HVAC unit has individual service area, numbering, and shutoffs. A fixed ladder located outside the Boiler Room allows for access to HVAC units on small roof area above the boiler room. Water cooling towers are located on the west side of the structure.

Loading dock: The loading dock is located on the north side of the building on floor P4. The dock accesses warehousing on the west end of the casino.



Wastewater Treatment Facility

A 5,000+ sq. ft., one story, wastewater treatment facility is located immediately west of the loading dock area. The building is fire sprinklered, and has a separate Fire Department Connection from the casino/parking garage. This FDC and a fire hydrant is located immediately west of the facility. The facility processes all facility waste-water and recycles water for toilet, irrigation, and cooling uses. The facility houses typical liquid-biological waste management processes and relatively small quantities of chemicals. Hazardous processes and elements for this facility include the following features:

- a. Alarm Systems: The treatment plant operates a system of alarms, including fire, smoke, and waterflow alarms, and two specialty alarms: Lower Explosive Limit (LEL) and Oxygen Concentration (O₂). These alarms are transmitted to a monitoring company and are not annunciated on the casino alarm system. The specialty alarms are both transmitted to an alarm company and activate a local revolving red light above an alarm panel inside the facility. When activated, assume the potential exists for explosive conditions from biological processes and facility operations.

- b. Confined Space: A number of below grade vaults housing various processes and effluent containment are located below the floors of the building or in vaults immediately outside the structure. These include 12.5 foot deep sumps that are likely oxygen deficient. Confined space rescue techniques are required for any entry into these spaces. Onsite crews are trained and equipped to conduct such entry.
- c. Hazardous Materials: Chemicals are used in various processes within the facility. These chemicals are typically stored in approximately ten 55 gallon drums and assorted smaller containers, with the drums in use being mounted on spill containment racks. Appliances are hooked to drums directly to extract needed chemicals when product transfer is required. These chemicals include common acids and caustic liquids, marked typically as corrosive hazards. Biological hazards are posed by both effluents and waste-water process residues. (Older water facilities commonly use hazardous substances such as chlorine for water processing. This facility is designed to not use chlorine and use ozone and UV light as a surrogate for such processes). Eye-wash stations and emergency showers are located within the facility for emergency decontamination. Typical chemical quantities include:

	Chemical	Largest Container	Quantity on Hand
1	Diesel Fuel	425 gallons	2/3 tank
2	Sodium Hypochlorite	55 gallons	4 drums
3	Citric Acid 50%	55 gallons	2 drums
4	Sodium Bisulfite 25%	55 gallons	1 Drum
5	Descalant Solution 10%	55 gallons	1 drum
6	Vitec 7000 Descalant	5 gallons	5 gallons
7	Activated carbon	55 gallons	4 drums
8	MicroC	55 gallons	2 drums
9	Hydrochloric Acid 20%	5 gallons	1 glass carboy
10	Caustic Acid 50%	6 gallons	2 glass carboys
11	Sodium Bisulfate	7.5 gal Pail	1 Pail

- d. Emergency Generator: An emergency generator with fuel storage is located on the north-exterior of the facility. This generator supplies emergency power to this facility only.

Typical corrosives used in the wastewater treatment facility



Wastewater treatment Fire Department Connection



Ambulance Access

Fire Department units and ambulances should utilize the entrance as directed by Security at the time of call. The access point will be determined by patient location, but will generally be one of the following locations:

- a. Loading Dock, north side of casino, floor P5
- b. Main casino entrance, floor P8
- c. Small loading dock, near main electrical room, south side of building, floor P4.

10. TRIBAL BUILDINGS

Several additional buildings are located on the west side of the property that are closed to public access and reserved for tribal use. These include:

<i>FACILITY NAME</i>	<i>Square Feet</i>	<i>Floors</i>	<i>Fire Sprinklers</i>
Tribal Administrative Offices	2,000	One	No
Community Center	4,000	One	No
Church	500	One	No

11. CASINO MANAGEMENT

Tribal Governance

Jamul Indian Village has a six-member Tribal Council providing executive leadership for the Tribe, its sovereign lands, and the casino. The Tribe was recognized by the Federal Government in 1981. The Tribe has a casino management relationship with Penn National Gaming of Wyomissing, PA.

The Tribe maintains a 20 year-MOU (2016) with the County of San Diego providing over \$2.75 million annually for fire, life safety, and public safety services. Additionally, the MOU provides for transportation and other regional improvements.

The administrative address for Jamul Indian Village is:

Mailing Address: P.O. Box 612, Jamul, CA 91935

Physical Address: 14191 Hwy. 94, Jamul, CA 91935

Offices Phone: (619) 669-4785

Casino Security

Emergency 24/7: Security Dispatch (619) 315-2400

Emergency Medical Technician (EMT) on site 24/7

San Diego County Deputy Sheriff on site 40 hours/week

10-18 Security Officers on at a time.

Bob Schmitt/Director of Security, Hollywood Casino Jamul

Office: (619) 315-2294 Cell: (619) 832-6752

Security phone/Contacts: Shift Supervisors: (619) 832-6340, (619) 832-3485

Security Shifts: 1st Shift, 0630 - 1500 (off Wednesday/Thursday)
2nd Shift, 1430 - 2300 (off Monday/Tuesday)
3rd Shift, 2230 - 0700 (off Monday/Tuesday)

Facility Engineers

Emergency-24/7: Contact via Security

Automatic External Defibrillators (AED's)

AED's are located throughout the casino. See maps for locations.

Floor C1 (4)

Floor C3 (2)

Floor P6 (1)

Section II. STRUCTURE FIRE ALARM AND RESPONSE PROCEDURE

1. STRUCTURE FIRE ALARM REPORT and INITIAL DISPATCH

DISPATCH

- A. The first alarm for an automatic ringing alarm (smoke, fire and waterflow) at the Hollywood Casino with no additional human confirmation of smoke or fire condition shall receive the following:
 - 2 Engines (a Truck may be substituted for one Engine)
 - Battalion Chief notification (response discretionary)

- B. The first alarm for a reported structure fire incident, defined as an automatic fire alarm with human confirmation of smoke or fire, or a verbal report of a fire at Hollywood Casino shall include:
 - 5 Engines
 - 1 Truck
 - 2 Chief Officers (DC/BC)
 - 1 Ambulance

- C. A reported “system trouble” alarm, without evidence of fire by any other electronic or human report, is considered a maintenance issue rather than an emergency. Should Security report a “system trouble” only condition prior to fire department arrival, the emergency response should be terminated, with non-emergency follow up only by the first due company to determine system operational integrity and false-alarm incident report information.

2. AUTOMATIC ALARM WITH NO VERBAL CONFIRMATION OF FIRE

INITIAL ACTIONS

- A. Actions by the first arriving resources shall include:
 - 1. Initiate command from the Fire Command Center (Fire Control Room) and establish immediate liaison with Casino Security.
 - 2. Provide prompt investigation of the alarms displayed and assign Firefighters to investigate the alarm location.
 - 3. First arriving engine (type 1 preferred) lay dry lines to the Fire Department Connection and fire hydrant supply.
 - 4. If an actual fire or smoke condition is found after arrival, or

alarm conditions in the Fire Command Center suggest an actual fire may be occurring (multiple fire, smoke, and water flow alarms for the fire floor), command shall immediately upgrade the response to a full fire response.

5. Investigation Team: A team investigating a single form of automatic alarm (smoke, fire, water flow), that is unconfirmed by human report, will be composed of a minimum of two personnel. This team will respond to the reported source of alarm for investigation. The team will carry the following equipment:
 - a. Equipped with:
 - Full protective equipment and SCBA
 - Pressurized water fire extinguisher
 - Forcible entry tool
 - Hand lights
 - Thermal imaging equipment (if available)
 - 800Mhz Radio(s)
 - Building master/elevator keys (obtained from Fire Command Center)

The Investigation Team shall remain in constant contact with the Fire Command Center in order to obtain updates, and will check-in with the Incident Commander prior to entry onto the alarm floor. Should the Investigation Team discover a fire or heavy smoke condition, they will discontinue entry and await additional resources until 2-in-2-out staffing and hose lines can be achieved.

- B. For single Automatic Alarm incidents where fire or a smoke condition is discovered on arrival:
 1. Start immediate rescue/evacuation of affected areas and initiate fire attack (when 2-in-2-out compliant), while ensuring responder safety.
 2. Establish a water supply, and pump fire sprinklers and standpipes.
 3. From the Fire Command Center, ensure building fire protection systems are operational, including:
 - Elevator recall (recalls to floor P8, or P7 if P8 is in alarm mode)
 - Fire Sprinklers
 - Stairwell pressurization (Stairs 1,2,9)
 - Fire Alarms

- Emergency Messaging
 - Emergency Lighting (as required)
 - Distribute building master keys to crews on arrival
4. Assign Security to crowd control and evacuation as appropriate (Non-IDLH areas only).
 5. Provide for rescue, and initiate treatment of the injured, as required.
 6. Report on conditions and order additional/greater alarm resources as appropriate.
 7. Exercise property conservation or environmental protection as conditions allow.

MANUAL MANIPULATION OF FIRE ALARMS - FIRE COMMAND CENTER

- A. Active fire alarms may be SILENCED by Security staff prior to fire department arrival when they have reason to suspect a false alarm, but NOT RESET. Manual resetting of the alarms may eliminate vital alarm panel indications, requiring a search of the greater facility to rule out a fire incident.
- B. Once the Fire Officer has confirmed and recorded active alarms, an attempt may be made to RESET the fire alarm system by either the Fire Officer or Security staff. A system reset, with no secondary or recurring alarms may indicate a false alarm, however inspection of the origin of the alarm will still be required. A system reset activation with additional fire alarm occurrence may indicate the presence of a working fire, and should be assumed as such until proven otherwise. After a system reset, a presence in the Fire Command Center should be maintained for a period of time to ensure immediate notice of any additional fire alarms.

3. CONFIRMED WORKING FIRE

Confirmation of a working fire condition occurs through one of the following means:

- A. Arriving firefighters report smoke or fire coming from the structure.
- B. Casino Security updates an initial automatic report with confirmation of fire or smoke.
- C. ECC receives multiple human reports of fire or smoke prior to the arrival

of firefighters.

INITIAL FIRE ATTACK – FIRST ALARM

- A. The following *minimum* core functions shall be implemented and staffed with the first alarm resources:
1. Command: Established within the Fire Command Center by the first arriving company officer.
 - a. Determine origin and status of all alarms.
 - b. Establish Incident Objectives to include:
 - Confine the fire to the floor/zone of origin
 - Evacuate the fire floor, and any location with smoke contamination or subject to potential fire migration
 - Isolate and deny entry of civilians to fire alarm areas
 - c. Assign incoming resources, distribute facility keys.
 - d. Establish liaison with Casino Security. Assign to evacuation and crowd control functions.
 - e. Activate manually any fire system required that is not automatically operating.
 - Elevator recall (recalls to floor P8, or P7 if P8 is in alarm mode)
 - Fire Sprinklers
 - Stairwell pressurization (Stairs 1, 2, 9)
 - Fire Alarms
 - Emergency messaging
 - Emergency lighting
 - f. Consult pre-fire plans as required.
 2. Fire Attack Team: To the fire floor (crews from first two arriving companies combined as a single attack team) to conduct initial firefighting and rescue. Priorities include holding or extinguishment of the fire, rescue, protection of primary escape routes, and prevention of fire extension.
 - a. Equipped with:
 - Full protective equipment and SCBA

- 100' 2.5-inch hose and 150' of 1.5-inch hose (bundles)
 - Forcible entry tools
 - Hand lights
 - Thermal imaging equipment (if available)
 - Spare air bottles (3)
 - 800Mhz Radio(s)
 - Building master/elevator keys (obtained from Fire Command Center)
- b. The Fire Attack Team will proceed to a single point of entry nearest the reported fire via Stairwell 1, 2, or 9. Investigate and attack fire, conduct rescue as required. (Note: Crews may use Stairwell 3 or 8 or an exterior ladder truck for roof access). The Fire Attack Team will have enough initial hose to stretch across half the floor area, and relief air supplies to enable a 20-minute attack. The team shall check-in with the Incident Commander prior to entry onto the fire floor from the primary attack stairwell.
 - c. The Fire Attack team must expect IDLH breathing conditions on the fire floor.
 - d. If a significant fire is discovered, the Fire Attack Team shall establish "2-in-2-out" safety procedures from the attack stairwell. If less personnel are available than required for this procedure, the crew shall await the arrival of additional resources prior to engaging in fire attack. (The "rescue exception" may be applied for temporary conditions).
3. Water Supply/Sprinkler & Standpipes: Support by an early arriving engine, type 1 preferred. (assignment staffed by the engine operator).
 - a. Connect to multiple discharges for fire hydrant supply to ensure greatest available volume.
 - b. Pump all four Fire Department Connection intakes.
 4. Crowd Control: To block public access to fire areas. (staffed by Casino Security initially and supplemented by local Law Enforcement).
 - a. Block access to the parking garage from the casino and

street, if fire is located within the garage.

- b. Evacuate fire area of the casino, as required or directed.
 - c. Investigate/monitor non-involved floors as requested.
 - d. Casino staff shall only operate in Non-IDLH areas.
5. Control Utilities: Within the fire area. Shutoff domestic water, gas, and electric power. (assign to Building Engineers).
 6. Establish Medical function: To treat civilians as required. (staffed initially by ambulance staff).
 7. Fire Attack Augmentation: Assign third arriving unit to fire attack/rescue or to the floor above the main fire, if extending, reinforce attack on the fire floor, or initiate salvage.
 8. 4th arriving unit: Assign to one of the following tasks, depending on immediate need:
 - a. Medical or rescue augmentation.
 - b. Rapid Intervention Crew/Backup fire attack.
 9. Second Chief Officer:
 - a. One Chief officer shall retain command, the second will assume responsibility for fire attack on the primary fire floor, or alternatively, assume responsibility for medical, evacuation, or other most critical needs.
- B. The Incident Commander has the authority to assign units to other tasks or priorities as required by emergency conditions, however they retain the overall responsibility to establish all listed functions.
- C. For any response, a Security Supervisor should be immediately requested to coordinate with fire commanders in the Fire Command Center. For working fires, a Facility Engineer should also be requested. If Security Offices on floor C3 are not compromised by fire, security cameras there may be an asset for monitoring fire and evacuation conditions. Coordinate observation with the Security Liaison in the Fire Command Center.

4. EXTENDED ATTACK AND MAJOR FIRE

A. Ordering Additional Resources

Second, (or greater up to 4) alarms should be immediately ordered for confirmed working fires, including breathing air (light and air) support. A second alarm should be in addition to the full initial assignment.

Guidelines for extended attack conditions include:

1. Smoke showing from the casino or parking garage on arrival.
2. Presence of sequential and multiple detector alarms, including smoke, fire, and water flow for the reported fire floor in the Fire Command Center.
3. Confirmation of a working fire by Security staff.
4. Multiple civilian reports confirming a general location.
5. Determination of the presence of an active fire condition by fire personnel.

Resources assigned to greater alarms will be consistent with the San Diego Unit Standard Response Plan.

B. Responsibilities for greater alarm resources

1. Expand/reinforce the Medical, Fire Attack/Rescue functions - 50% of the second and third alarm resources. Establish at least one additional attack point from a second stairwell, when possible.
2. Establish Lobby Control and consider fire service controlled elevator use.
3. Establish Staging, Firefighter Rehabilitation, and Incident Base. Staging shall be within 2 floors of the fire and include equipment and firefighters. Base shall be outside the fire building and include apparatus staging. Additional ambulance or paramedic units may be needed for Firefighter Rehabilitation.
4. Establish Stairwell Support as required for logistics and supply.
5. Establish Firefighter Rehabilitation in a safe location.

C. Key guidance for support of major incidents

1. Order breathing support and additional air bottles early.
2. Consider a full medical/multi-victim incident response if mass casualties develop. Establish medical as an “Incident-within an-incident” for high complexity situations.
3. Contact Otoy Water District to support fire flows with additional pressure and supply.
4. Consider closure of Highway 94 for fire service access.
5. Consider that an active fire burning beyond the second alarm will likely require 100+ firefighters.
6. Continue fire apparatus supported pumping of fire sprinklers and standpipes beyond initial knockdown, until such time as the fire is confirmed out.
7. Consider that IDLH smoke concentrations may form in the parking garage quickly, potentially on multiple floors. Consider use of Haz Mat resources for air monitoring prior to discontinuance of IDLH respiratory protections.

5. SMOKE MANAGEMENT, SALVAGE AND WATER REMOVAL

A. Smoke Management - Casino

1. Provide structure fire ventilation through openable bar/deck windows, vertical shafts, via mechanical ventilation, or breach of roof, windows, or walls. Use caution to avoid creation of ventilation openings on the windward side of the building.
2. Ventilation using Stairwells 1, 2 or 9 will require manual deactivation of stairwell pressurization fans. Use of other stairwells will be preferred or consult with facility engineering.
3. The building HVAC systems or parking garage exhaust systems may be required for use in smoke ventilation. Ensure facilities staff close doors to patios in the Beer Garden and Steak House.

B. Smoke Management - Parking Garage

1. Ensure stairwell pressurization in Stairs 1, 2 and 9 are active to prevent extension of smoke into casino prior to use of any other air handling system.
2. Achieve fire knockdown prior to manual activation of exhaust fan systems.
3. Activate P6 parking garage exhaust fans manually to vacate smoke. (see facility description for instructions).
4. Expect 1-2 hours to vacate smoke effectively, monitor for carbon monoxide accumulations and ensure non-IDLH even when atmosphere appears clear.

C. Use of Gas Powered Smoke Ejection Fans

1. When considering use of fire service fuel-powered smoke ejectors in confined spaces, consider that they introduce hazardous levels of carbon monoxide from motor operation. These fans are also generally too small to move required air volumes within the parking garage. (This may require the casino to contract needed resources).

D. Water Management & Salvage

1. Limited drainage exists in the casino for fire suppression water. Potential methods include use of kitchen floor drains, removal of toilets for plumbing pipe access, use of stairwells and elevator shafts, or use of water vacuum equipment. Channelization of water using salvage covers, plastic sheeting, or other equipment may assist in water management.
2. Limited drainage exists for the parking garage. Parking levels P4 through P8 have access to driveways where water may be manually moved. Parking levels P2 and P3 have no floor drains. Parking level P1 has a single floor drain in the northwest corner of the garage for drainage of floors P1-3. (See facility description for instructions).

3. The elevator shafts in all floors of the casino and parking garage may be used to remove water. *Shut off electrical power to elevators used for this purpose in the elevator control room. Notify building engineers of water input so that controls for waste water may be managed.* Water directed here will accumulate in the shafts where it is pumped out to the waste water control plant.
4. Consider diking drain discharges leading to creek.

6. INCIDENT COMMAND SYSTEM POSITIONS FOR MAJOR FIRE

The following Incident Command System functions and positions are intended for implementation for second and greater alarm fires.

A. Lobby Control

An assigned company from second alarm assignment will establish Lobby Control. Lobby Control may be located at, or near to the Fire Command Center.

Lobby Control reports to the Incident Commander or Logistics Officer. Lobby Control responsibilities include:

1. Initial accountability.
 - a. Lobby Control will record company identification as a crew enters the building and their initial assignment.
2. Control elevators.
 - a. Lobby Control will control all elevators and will designate specific elevators to be used with assigned fire department operators under “firefighter service”.
3. Control ingress, egress and ascent locations.
 - a. Lobby Control will designate all entry and exit locations from the building.
 - b. Determine the safest travel route that will protect personnel from falling glass and other items from the building.
 - c. Direct firefighters to appropriate route of ascent.
 - d. Facilitate movement of equipment and supplies to Staging. Spare SCBA bottles and drinking water should be prioritized very early on in the incident
 - e. Equipment movement can be facilitated by elevators

deemed safe to use in “fireman service”. Consider exterior access via driveways to floors P3-P8.

- f. Companies enroute to Staging should assist in the movement of supplies and equipment.
- g. Assume responsibility for building systems in the Fire
- h Command Center, including:
 - Built-in fire protection systems
 - HVAC/smoke management systems
 - Communications and public address system
 - Electrical power, gas, and domestic water systems
 - Manage access keys and ensure access doors are open.
 - Liaison with building engineers

B. Staging

Two forms of staging are utilized in high rise incidents:

1. Incident Base: A location for mass vehicle and crew assemblage. Incident Base works for the Incident Commander or Logistics Section Chief. The Base management function should be assigned during early multiple alarm arrival.
2. Staging: A location near the fire floor to assemble relief crews, air bottles, and firefighting equipment. This location is usually 1-2 floors below the active fire floor, in a clean air area. *Firefighters will need to seek a location offering safety for fires below grade in the parking garage. The Staging Area Manager works for the Fire Attack Team Supervisor or the Operations Section Chief.*
3. Individuals or crews assigned to manage Staging areas shall manage all assets and staff arriving, and deploy resources from staging as requested. The Staging Area Manager shall ensure that adequate reserves have been ordered and are available, as directed by their supervisor, and shall ensure crews and equipment staged are maintained in a ready state.

C. Other Specialized Functions

Additional ICS organizational positions may be established based upon critical need during a high-rise incident. These positions are discretionary, and include:

1. Stairwell Support: Is established when manual movement of supplies and resources via stairwells is necessary to support the fire floor(s). This is a staff-intensive function, and is only recommended when elevator “fireman service” cannot be established. Stairwell Support works for Logistics. (Consider use of fire hand crews for this assignment when stairwells can be isolated from IDLH and other fire threats).
2. Ventilation, Rescue, Medical, Water Removal/Salvage or other Groups: May be established to provide directed support to critical and incident specific needs. They may be established as necessary to improve operational emphasis, or command and control.
3. Helicopter Operations: May be considered for rescue operations for civilians who have fled working fires to roof top spaces. It is not a recommended method for firefighter insertion to fires on floors below the roof level. Air ambulance services may also be needed for critically injured persons.

Section III. Wildland-Urban Interface Fire Response Plan

Wildland Exposure

The entire property is within the High and Very-High Fire Hazard Severity Zone, and has been developed on sovereign lands with little clearance or defensible space to adjacent wildlands. Adjacent wildlands are under State and other reserve ownership, and include grass, coastal sage, and chaparral fuels. Large oak trees are immediately adjacent to the casino and water treatment plant on the facility’s west side. Wildland fires are frequent in the area, and the Highway 94 pathway is within an historical major fire corridor. Past major fires have included the Laguna (1970), and Harris (2007). Wildfires may pose a direct threat to the development, which is of fire-resistive construction, but is subject to ember intrusion via horizontal openings on the east and south sides at restaurant/bar patio decks, in the parking garage/casino access openings on floors P4-8, along the roofline, at ventilation/HVAC air intakes, and in other locations. The need for active structural defense, evacuation, and/or occupant protection-in-place requiring multiple fire and law resources should be anticipated in the event of a threatening wildfire.

The attached Wildland-Urban Interface Fire Response Plan affects the southwest side of the community of Jamul, including the Jamul Indian Village and Hollywood Casino.

	WUI Name: JAMUL WEST			SDF09W	
	Location: Hwy. 94 corridor, S/W Jamul				Insp'd Date: 3/14/2016 By: Rohde & Assoc.
	Public Safety Grids: 1536-1838	WUI Grid No.: 13-24			
Risk Assessment	Tactical Plan	Tactical Map	Area Map	Aerial Map	Additional Info

RISK ASSESSMENT MATRIX

Jamul West		
RISK ASSESSMENT MATRIX		
SAFETY	STATIC	ATTACK
FF Safety 2	Fuels 1	Access 2
Civ. Safety 2	Topography 2	Water 2
Air Safety 2	Clearance 2	Comms 1
Hazmat 2	Construct 2	Tac Air 1
Entrapment Risks- 1	Density 2	

S A F E T Y	FF Safety	FF Safe	No Safety Zones	Marginal Safety Zones	Adequate Safety Zones
	Civilian Safety	Civ Safe	Mandatory Evacuation	Evacuate if Time Permits	Shelter in Place
	Air Safety	Clear	Restrictions, Steep Cyns	30' to 70'	More than 70'
	HazMat	HazMat	Bulk LPG, Chemicals	Hazards in Barn	None
S T A T I C	Fuels	Fuels	Heavy or Dead Trees, Brush	Moderate	Light
	Topography	Topog	Steep	Medium Slope	Flat
	Clearance	Clear	30' or Less	30' to 70'	More than 70'
	Construction	Const	Abundant Combustable	Some Combustable	Non-Combustable
A T T A C K	Structural Spacing	Density	Dense Spacing	Subdivision Tracts	Rural, dispersed
	Access	Access	Narrow, Dirt Rds No turnarounds	1 Ln, paved, 1-way in/out	2-Lane Rds. Good Ingress/Egress
	Water	Water	No Water Source	Ponds, pools, low flow hyds	Good Hydrants
	Communications	Comm	Poor Radio, Cell Coverage	Some Weak Spots	Good Coverage
Tac Air Support	Tac Air	20+ Min Re-load, No LZs	10-15 Min Re-load, No LZs	5 Min re-load, LZs	

CRITICAL INFORMATION

Response Safety

Furthest S/W areas (in canyons) are high risk. Aerial fuels run through the community. Traffic on Hwy. 94 can be impacted with smoke.. Be prepared to shelter population in safe locations in intense fast moving fires. Some deep canyon areas may have compromised cell or radio reception, Use MVU 1-T5, CDF C1 T13 or CDF C2 T14. 10-A on 800 Mhz. Hollywood Casino is fire resistive construction but little defensible space.

Aviation Hazards

Sunrise transmission powerlines along the west side of Jamul. Be aware of numerous Border Patrol aircraft S/O SR94. Radio towers on most high peaks. Harbison Canyon to the west is a military aircraft low level flight training area. Area is in flight path to Lindberg Field.

Potential Choke Points/Entrapments

All streets off Vista Sage Ln. and Vista Diego from Hwy. 94. and Pioneer Way off of Proctor Valley Rd. have significant entrapment potential. West section of Hwy. 94 E/O Steele Canyon has significant funneling potential. Use the dirt Proctor Valley Rd. only for emergency evacuation, and only after ensuring it will not be compromised by fire movement.

BRIEFING INFORMATION

Fuels	Heavy mixed chaparral and coastal sage on slopes, some grass-oak woodlands in valley floors. 100 ft. defensible space around most homes.
Last Year(s) Burned	1970 Laguna Fire (100%). Harris Fire (2007) with some structural loss.
Expected Fire Behavior	This area includes one of the most hazardous contiguous fuel beds in San Diego County. Under critical fire weather, fires will burn with extreme fire behavior, explosive fire growth/high rates of spread, and long range spotting (Up to 2 miles). This is a historic corridor for fire and high winds. High risk for civilian entrapment and major structural loss. Aerial canopy and narrowing topography to the west may cause spread rate to accelerate and pose significant threat to life and structures just south of Hwy 94.
Topography	Rural community below on ridges and in canyons, some with limited access, many in alignment with Santa Ana winds. Many homes atop steep slopes and in canyon draws causing winds to accelerate as they funnel through. Elevations range from 885' in Jamul to 2,565' on San Miguel Mtn.
Access	Paved access is east from Hwy. 94 from Rancho San Diego, north via Lyons Vly. Rd. or Jamul Dr., south from Chula Vista from Proctor Vly. Rd. (some unpaved) and east from Dulzura on Hwy. 94. Mostly accessible to Type 1's, but Type 3 recommended southwest of Hwy. 94 along Proctor Vly. Rd. and Vista Sage Ln.
Special Hazards	1. Hollywood Casino, SR94, across from FS36- up to 5,500 guests. Security: (619) 315.2400. 2. Area of frequent travel for illegal immigration. (Use caution when firing.) 3. Many equine and other large animals in area; one of the highest concentrations in the county.
Safety Zones/ Temporary Safe Refuge Areas	
	SZ St. Pius X Church, Lyons Valley Rd. at Hwy. 94 Large animals + locals
	SZ Holiday Casino/Jamul Indian Village, 1419 Campo Rd. (Hwy. 94) Notify Tribal Security
	TSRA Horse Riding Arena, 15186 Lyons Valley Rd. x-Rocky Mtn. Rd. Large animals + locals
Water Supply	Most hydrants in Jamul supplied by Otay Water Dist. Wells only for rural homes. 10,000 gal. tanks for fire protection on some rural properties noted by blue metal street signs. Water pump stations on Hwy. 94 btw. Steele Cyn. and Lyons Vly. Rd.

UNIFIED COMMAND

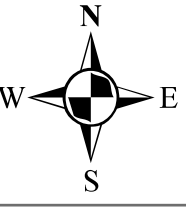

Potential Incident Command Post Location	Initial ICP- 1. Jamul Elem./Intermediate Schools, 14545 Lyons Valley Rd Major Fire- 2. Gillespie Field, 1960 Joe Crosson Dr, El Cajon
Unified Command Participants	Cal FIRE, USFWS, SDCo Sheriff, CHP Border Patrol, SDG&E
Staging Areas	1. Jamul Elem./Intermediate Schools, 15145 Lyons Valley Rd. 2. Jamul Community Church, 14058 Jamul Dr. 3. Shopping Center, Jamacha Rd. at Hwy. 94, El Cajon

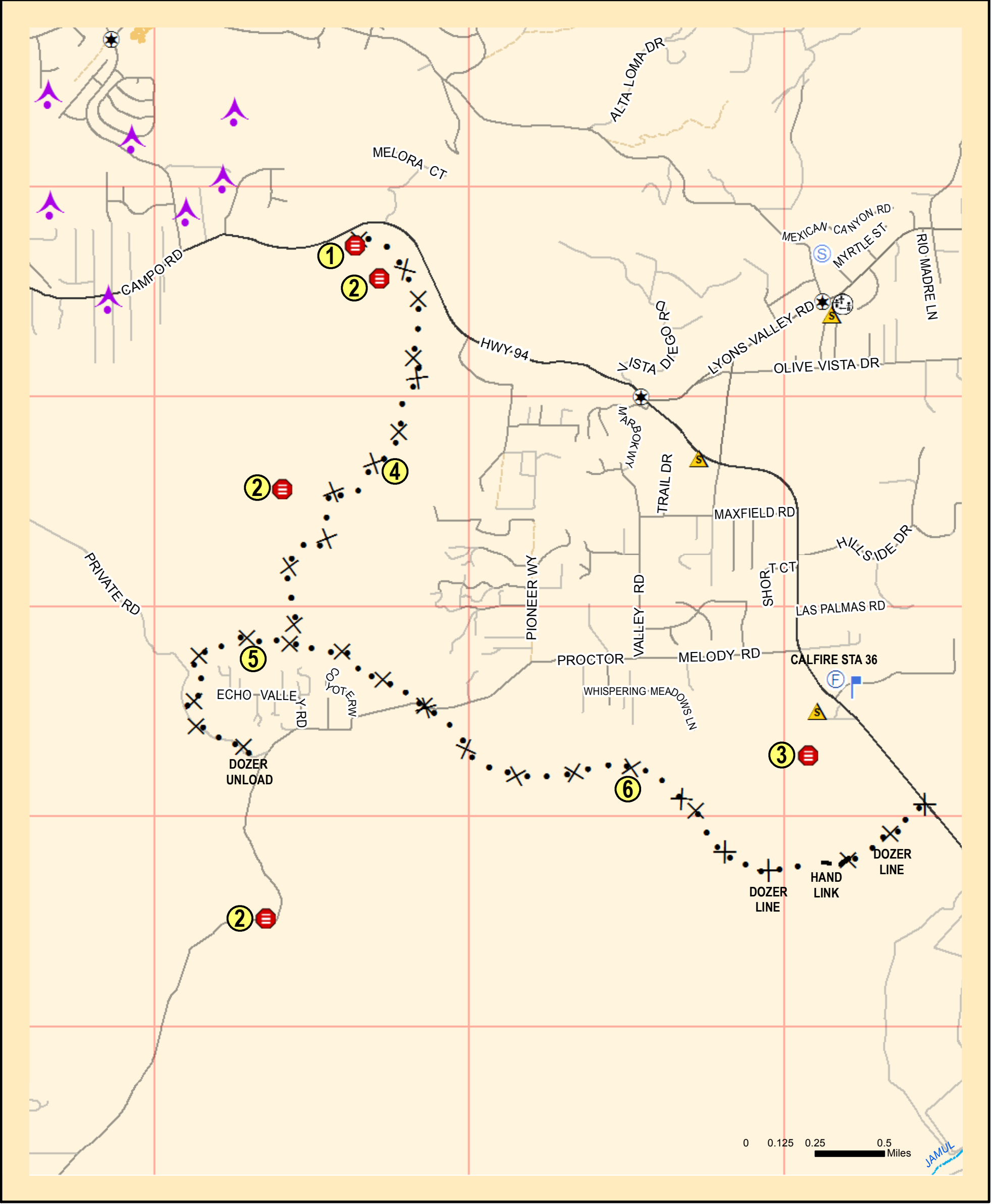
LARGE FIRE DEVELOPMENT FACTORS

Weather	
Temperature	< 80 deg. F.
Relative Humidity	< 10%
Wind Speed	Avg.: 20-35 MPH Gusts: 35-60 MPH
	Seasonally dry or long term drought
Rate of Spread	13,200 - 16,170 ft./hr.

WUI ARRANGEMENT

Interface: Y	Intermix: N	Urban: N
Suburban: Y	Rural: Y	Other: N

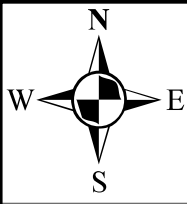
	WUI Name: JAMUL WEST				SDF09W
	Location: Hwy. 94 corridor, S/W Jamul				
	Public Safety Grids: 1536-1838	WUI Grid No.: 13-24	Thomas Guide Grids: 1292		
Risk Assessment	Tactical Plan	Tactical Map	Area Map	Aerial Map	Additional Info
Primary Plan (Offensive) Offensive and aggressive attack on flanks, with aircraft holding fire at ridge lines or other appropriate locations. Hold fire from structures. Limited evacuation of fire perimeter homes.			Alternate Plan (Offensive) Consider early evac, due to history of rapid fire spread. Be aware of potential choke points for traffic flow. Select prep-and-defend homes for structural defense & expect good results in developed community areas. Use caution during maneuver, especially on Hwy. 94 west of Lyons Valley Rd. & all streets off Vista Sage Ln. and Pioneer Way. Watch for spotting along roads and in fuel islands or stringer canyons. Do not maneuver through heavy fuels until fire has passed. Use fire-front-following tactics for unreachable structures. Stay maneuverable when safe to protect dispersed structures. Use indirect or fire-on-fire firing tactics around structures or at base of slopes with IC approval only. Defend Hollywood Casino and guests in-place.		
Contingency Plan (Defensive - Responder Safety) Firefighters and law enforcement seek temporary refuge around homes with good defensible space. Select Safety Zones/Tactical Refuge Areas well in advance of fire front. Shelter trapped civilians in place with you. Remain in Safety Zones until it is safe to resume travel on roads. Escort civilians from area only when safe to maneuver, Lyons Valley Rd., Jamul Dr., Proctor Valley Rd. and Hwy 94. Some isolated structures may not be defensible or accessible. Hwy. 94 corridor may be hazardous due to fire movement. Use fire-front following tactics for remote homes or those without defensible space.			Emergency Plan (Defensive) Defend evacuated populations within SZ/TRAs. Do not attempt to access properties off Vista Sage Ln. and Pioneer Way. Conduct check-and-go for all accessible properties. If possible, remove all civilians from plan area well before fire or seek shelter in Jamul. Prioritize evac. over fire control. Be vigilant for long-range spotting that may spread fire from planning area. Expect all travel routes from Jamul to be hazardous, including Hwy. 94. Be vigilant for development of fire whirls or other extreme fire behavior that may compromise safety. Remain in TRAs until it is safe for travel. Use anchor-and-hold tactics in Jamul where appropriate, more isolated structures may not be defensible.		
Perimeter Control Plan: Protect evacuation routes along Hwy. 94 and Proctor Valley Rd. as long as feasible. Protect water pump stations along Hwy. 94 to ensure water supply. For Vista Sage Ln., Vista Diego, Pioneer Way, Proctor Valley Whispering Meadows Ln. use defensive firing to shepherd fire back up into hills and off of homes, but with IC permission only. Restrict large firing in accordance with immigration concerns and evacuation corridors. Consider dozer along Proctor Valley Rd. (see map). Hold fire N/O Proctor Valley Rd./Melody Ln., S/O Lyons Valley Rd./Hwy. 94, E/O Vista Sage Ln./Pioneer Way., and W/O Hwy 94.					
EVACUATION PLAN					
Primary Evacuation Plan Activate "Alert SD". Prioritize evacuation of homes and camps along Vista Sage Ln. and Pioneer Way. Evac. Hollywood Casino early or shelter-in-place. Evacuate moving west towards El Cajon for Santa Ana wind driven fires, but cease evacuation for fires crossing west from Honey Springs Rd. For on-shore wind driven fire, cease evacuation when fire crosses Proctor Valley Rd./McGinty Mtn or Steel Cyn. Rd. and seek shelter. Be prepared to shelter-in-place. Typically heavy traffic on SR94- will be jammed during evacuation.					
Evacuation Trigger Point Initiate evacuation plan area early for Santa Ana wind driven fire crossing S/O Sloan Canyon in the Japatul/Dehesa area or Dulzura to the east. For onshore wind driven fires, evacuate when fire crosses Jamacha Rd. x-Hwy. 94. Do not use Proctor Valley Rd. for evacuation after onshore fire crosses Millar Ranch Rd.					
Temp. Evacuation Assembly Points (Human & Animal) 1. Steel Canyon High School, 12440 Campo Road, Spring Valley 2. St. Pius X Church, 14107 Lyons Valley Rd x-Jamul Dr., Jamul 3. Target Store, 2911 Jamacha Rd., El Cajon					
POPULATION & STRUCTURES AT-RISK			STRUCTURAL TRIAGE		
Population		2,196 residents +Hollywood Casino 5,500	Threatened/ Non-Defensible		20% Vista Sage Ln. & Pioneer Way
Planning Unit Acreage		4,439	Threatened/Defensible		80%
Structures		736	Non-Threatened		0%
			W/ Defensible Space		65%
Fire Ordering Point: Cal-Fire MVU (619) 401-7787/(619) 593-2271 (UOP) USFWS (619) 557-5262			Law Enforcement Ordering Point: SDCo. Sheriff (858) 565-5030		
Engines: The number range reflects the number of "minimum" to "preferred" resources.			Law Enforcement: 100 SDCoSO deputies, CHP Officers and Border Patrol. CHP and Border Patrol to traffic management, 40-60 deputies to evacuation. IC- Lt. or Capt. (Limited radio communications with Border Patrol.) Execute traffic control at Hwy. 94 x-Lyons Valley, x-Honey Springs x-Rancho Jamul, Four Corners, Jamul Dr. x-Lyons Valley, x-Steele Canyon, Proctor Val Rd x-Chula Vista city limit.		
Type 1 Strike Teams: 2-4		Type 3 Strike Teams: 6-8	Water Tenders: 8-10		
Crews Single: 8 STs: 0			Overhead: 5-6		
			Div. Sup.: 3-4		
		1 3			1
WUI Engine Deployment - High Risk 1 engine/2-4 perimeter structures, 1 engine/isolated structures 2 engines/ multi-family structures			Logistics Open County EOC (858-688-9970) to support aggressive fire and large evacuation need. Consider responder fuel, water, and food needs. File F-MAG application with CAL-OES. Notify Security at Holiday Casino/Jamul Indian Village (619) 315.2400.		
WUI Engine Deployment - Moderate Risk 1 engine/2-4 perimeter structures, 1 engine/isolated structure, 2 engines/multi-family structure			Other Notify public works to assist in traffic management, Red Cross and Animal Control to assist in evacuation. Notify Otay Water District to boost water pressure as needed (619) 670-2207.		



CRITICAL INFORMATION:

1. Pump station
2. Erratic fire behavior
3. Heavy fuel
4. Dozer line. 2.6 miles. 2 D6-C dozers and 4 hand crews. 6 hours to construct.
5. Dozer line. 1.6 miles. 2 D6-C dozers and 2 hand crews. 3 hours to construct.
6. Dozer line. 2.4 miles to Hwy 94 from Proctor Vly. Rd. 2 D6-C dozers and 2 hand crews. 4 hours to construct.

Legend			
Access	Drop Point	Incident Command Post	Staging Area
Aerial Hazard	Evacuation Direction	Law Enforcement Control Point	Temporary Assembly Point
Aerial Ignition	Fire Station	Life Safety Hazard	Temporary Safe Refuge Area
Base Camp	Hazmat	Lookout	Water Source
	Helibase	Safety Zone	Evacuation Route - Primary
			Fuel Break
			Management Action Point
			Planned Fire Line
			Proposed Dozer Line



WUI Name: JAMUL WEST

0 0.25 0.5 Miles



SDF09W

Location: Hwy. 94 corridor, S/W Jamul

Public Safety Grids: 1536-1838

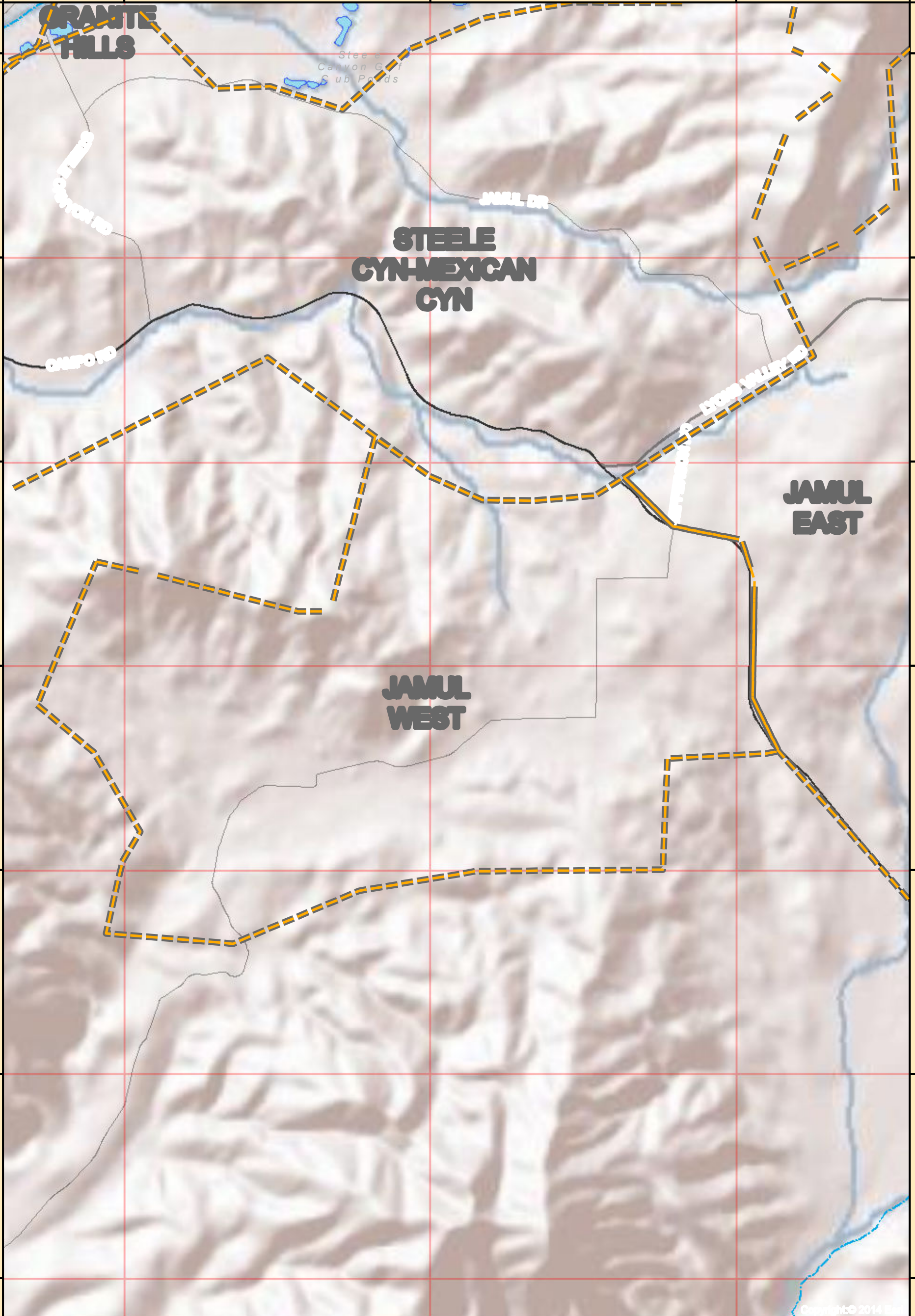
WUI Grid No.: 13-24

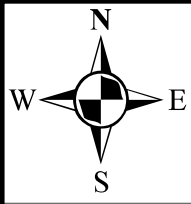
Thomas Guide Grids: 1292

Insp'd Date: 3/14/2016
By: Rohde & Assoc.

[Tactical Map](#)

[Area Map](#)





WUI Name: **JAMUL WEST**

0 0.25 0.5 Miles



SDF09W

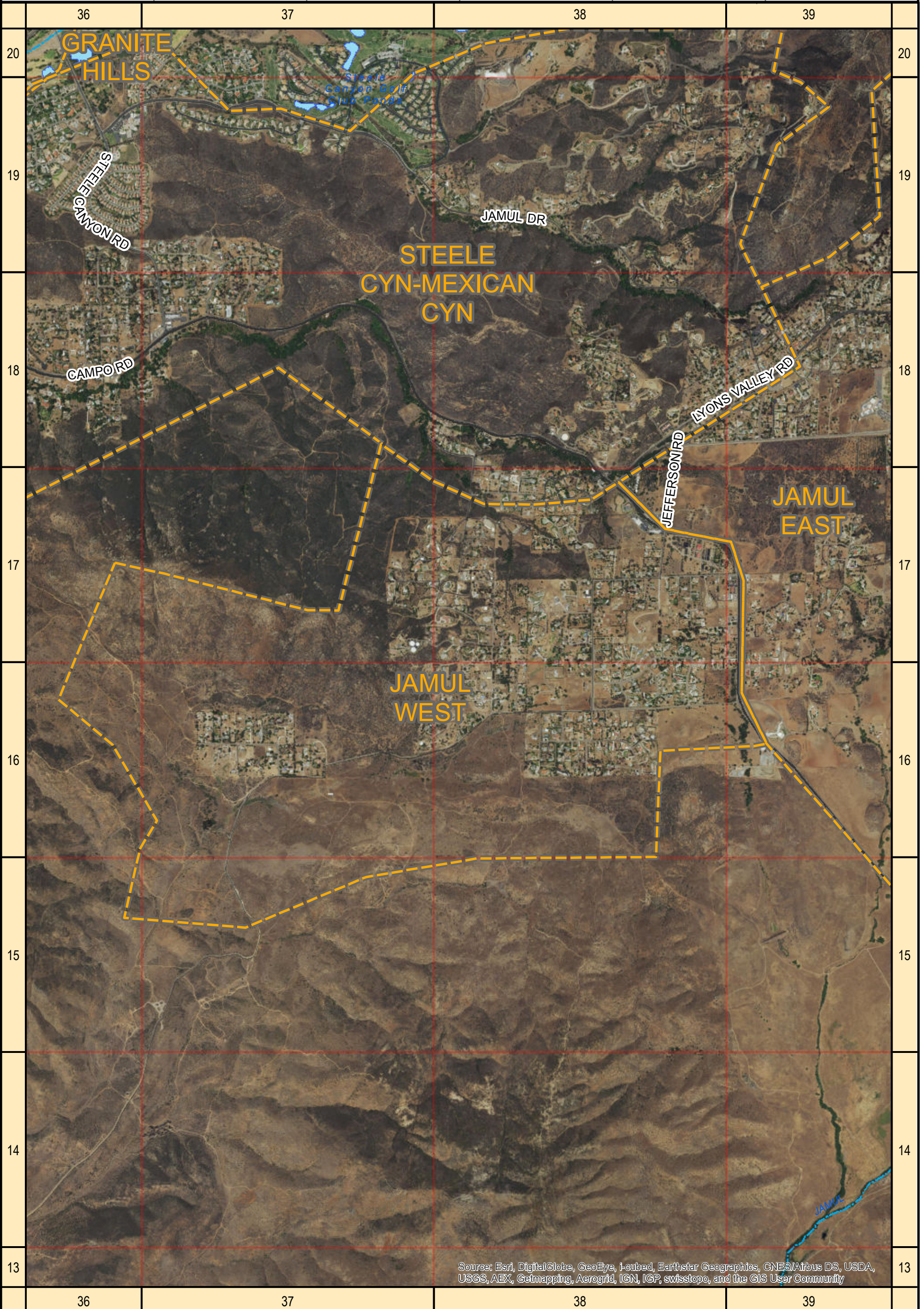
Location: Hwy. 94 corridor, S/W Jamul

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Thomas Guide Grids: 1292

Insp'd Date: 3/14/2016
By: Rohde & Assoc.



Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

WUI Name: JAMUL WEST

Location: Hwy. 94 corridor, S/W Jamul

Public Safety Grids: 1536-1838

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SDF09W

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[Risk Assessment](#)

[Tactical Plan](#)

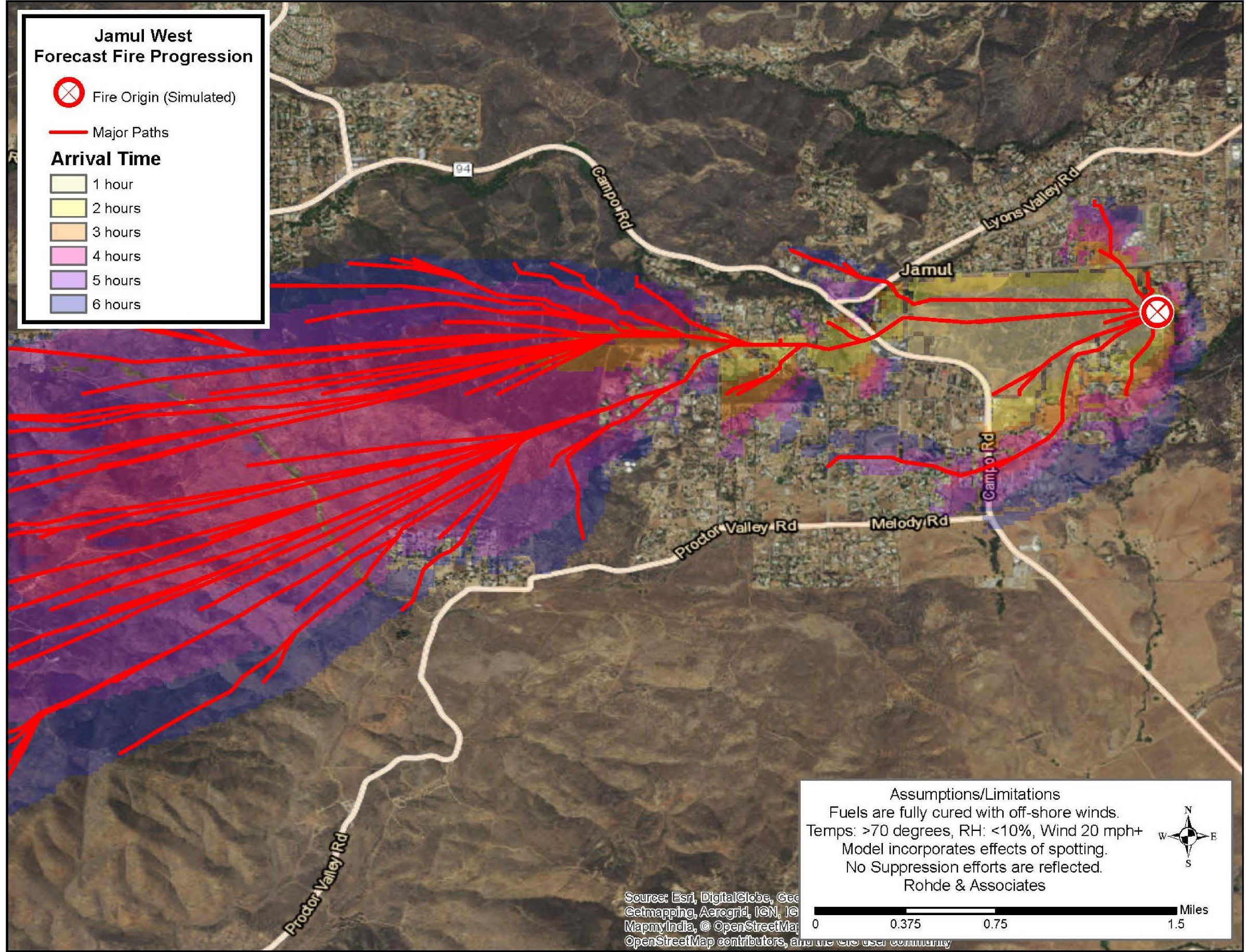
[Tactical Map](#)

[Area Map](#)

[Aerial Map](#)

[Additional Info](#)

Fire Trajectory



Section IV. Public Safety and Supporting Agency Resources

1. EMERGENCY SERVICES

Cal-Fire/San Diego County Fire Authority

Dispatch: (619) 401-7787, (619) 593-2271

Facility/Station locations

Station 36 14024 Peaceful Valley Ranch Rd Jamul, CA 91935 (619) 669-6580	Distance: 0.1 miles 103 ft. Truck/aerial ladder (4.0 staffed) Type 1 medic/engine (3.0 staffed) Patrol/Type 6 engine (cross-staffed)
Station 37 2383 Honey Springs Rd. Jamul, CA (Deerhorn Valley)	Distance: 9 miles Type 1 engine (2.0 staffed) Tactical Water Tender (cross staffed)
Station 22 11501 Via Rancho San Diego El Cajon, CA	Type I Engine 3.0 staffed
Station 65 2850 Via Orange Way Spring Valley, CA	105 ft. Truck/aerial ladder (3.0 staffed) Type I Engine (cross-staffed) Light & Air Rescue (cross-staffed)
Station 61 10105 Vivera Wy. La Mesa, CA	Type I Engine (3.0 staffed)
Station 32 17759 Skyline Truck Trail Jamul, CA (Lyons Valley)	Type III Engine 3-4.0 staffed

San Diego County Sheriff

Dispatch: (858)565-5200

A deputy is assigned to the Hollywood Casino 40 hours per week.

Substation:
11486 Campo Rd
Spring Valley, CA 91978
(619) 660-7090

Substation:
1135 Community Building Rd
Dulzura, CA 91917
(619) 468-1404

Substation:
2751 Alpine Blvd
Alpine, CA 91901
(619) 659-2600

Bomb Squad- Contact San Diego County Sheriff

SDSO Bomb/Arson Unit
1745 N. Marshall Ave.
El Cajon, CA 92020
Dispatch: (858)565-2000 Office: (619)956-4980

***All resources listed below- contact via Cal Fire Dispatch for emergency response**

Urban Search and Rescue (USAR) Teams

San Diego City Fire Dept.
USAR Task Force 8
Equipment at NTC
* Requires dispersed personnel mobilization
Contact: Louise Harkness (619) 533-4313

Chula Vista City Fire Dept.
USAR 53, Fire Sta. 3
1410 Brandywine

Haz. Mat. Teams

San Diego City Fire Dept.
SDFD Fire Station 45
9366 Friars Rd.
San Diego 92108
(858)-573-5015

2 Type 1 Haz Mat Units (4.0 staffed)

San Diego County Health Haz. Mat,
619-533-4380

Ground Ambulance

San Miguel Station 14
AMR M254

San Miguel Station 15
AMR M256

San Miguel Station 22
AMR M411 (12 hour M-Sun)

Air Ambulance-Contact Via Cal Fire Dispatch

San Diego Fire & Rescue
Montgomery Field
San Diego, CA
(858) 636-4871

Mercy Air Ambulance
9745 Prospect Avenue
Santee, CA 92071
(619) 448-3457

Reach Air Ambulance
Vejas Indian Casino
5000 Willows
Alpine, CA 91901
(800) 338-4045

Mass Casualty Units

Chula Vista Fire Sta. 4
820 Paseo Ranchero
8844 Dallas St.
Chula Vista, CA 91910

Lakeside Fire Sta. 3
14008 I-8 Business
Lakeside, CA 92040

Alpine Fire Sta. 17
1364 Tavern Rd.
Alpine, CA 91901

La Mesa Fire Sta. 12
La Mesa, CA 91942

2. HOSPITALS

Receiving Hospitals

Grossmont Hospital
5555 Grossmont Center Dr.
La Mesa, CA 91942
(619) 740-6000

Alvarado Hospital
6655 Alvarado Rd,
San Diego, CA 92120
(619) 287-3270

Trauma Centers

Scripps Mercy Hospital
4020 Fifth Ave.
San Diego, CA 92103
(619) 260-7022

Sharp Memorial Hospital
7901 Frost St,
San Diego, CA 92123
(858) 939-3400

3. ADJOINING LANDS

U.S. Fish and Wildlife Services
14024 Peaceful Valley Ranch Rd
Jamul, CA.
Dispatch: (619)557-5262

Type 3 Engine 56
Type 3 Engine 58

Admin. Offices: 14715 Campo Rd., Jamul, CA 91935
(619) 669-6580, (619) 468-9245

4. PUBLIC UTILITIES

Otay Water District:
2554 Sweetwater Springs Blvd.
Spring Valley, CA 91978-2096
(619) 670-2222

San Diego Gas and Electric Co, (SDG&E)
On duty Emergency Fire Coordinator (858) 503-5152
General Emergency Information 800-411-7343

Section V. All Hazards Response

1. EARTHQUAKE PROCEDURE

Employee and Guest Responsibilities:

Immediate Action:

- Remain Calm. By staying calm, yourself; you will be better able to assess damage and assist others.
- Take Cover.
 - If you are inside a building:
 - stay there;
 - move under a sturdy table, desk, or bed and stay there;
 - brace yourself in an inside corner, or doorway;
 - stay away from windows;
 - protect your head and face with any available material.
 - If you are outdoors:
 - stay there;
 - move away from tall buildings, structures, and trees;
 - stay away from fallen power lines, as they may appear to be “dead” but may suddenly re-energize as automatic restoration of power is attempted;
 - proceed if possible to an open area.
 - Do not lift or raise any power lines
 - If you are in a vehicle:
 - pull over and stop;
 - remain clear of overpasses, tall buildings, structures, and trees;
 - make certain your seat belt is fastened;
 - stay in your vehicle, as it will provide some protection from falling and flying debris.

Security and Staff Initial Actions:

- Inspect all areas of the casino, parking garage, and water-treatment facility for damage. Flag-off areas of collapse. Report immediately any smoke or chemical odor.
- Ensure a complete inspection of the facility is performed prior to commitment of all Security resources to a single incident. A worse situation may be waiting to be discovered than the one that has been found!
- Determine if a building evacuation is required. Initiate if conditions warrant.
- Request fire assistance if emergency conditions are identified.

After a damaging earthquake:

All Occupants:

- Do not rush outdoors immediately. Many people are injured in this way when struck by falling debris. Visually inspect (look up and around) for hazards prior to building departure.
- Do not use the elevator, and warn others not to use it, because a power outage may occur after the quake has stopped in your immediate area.
- Check for injuries or people who are trapped.
- Follow emergency medical procedures.
- Assist staff and guests in leaving the building if it is safe to leave.
- Follow procedures for building evacuation.

Security, Facilities Engineering, and General Staff Emergency Actions:

- Evacuate staff and guests via stairwells, when determined safe to move outside.
- Direct guests away from areas of collapse, fire, chemical spill, or utility hazard.
- Do not attempt evacuation of people by cars from the parking garage until determined to be safe. Include bridges and exit routes in the safety inspection.
- In an immediately threatening condition- activate the casino fire alarm system for automatic evacuation messaging by pulling the manual pull station in the Fire Command Center.
- Take initial action on small fires with fire extinguishers, if safe to do so.
- Liaison and team with fire and law responders to address building and occupant emergencies.
- Be prepared to remain self-sustained if evacuation is impossible and guests must be retained onsite.
- Consider shut-off of main water, electrical, or propane utility services as required. Use caution to not shut-off fire sprinklers, even if no fire is initially present. Isolate broken fire sprinklers using plugs or sectional valves.

Fire and Law Actions

- Be prepared to initiate full fire and medical/mass casualty response as required.

2. FLOODING

Natural flooding may occur in low drainage areas such as the creek on the immediate west end of the casino.

Flooding may also occur as a result of water introduction to garage areas, or in casino areas where fire sprinklers may activate, plumbing systems overflow, or water pipes may break.

Dangerous accumulations of water may occur in the below grade parking garage space, or adjacent to the creek on the west end of the property under extreme rainfall conditions.

Response to Minor Flooding

Security will assist as necessary to direct guests away from flooded areas and Facilities staff will clean up the discharge. Bio-hazard protection should be utilized as needed.

Facilities staff must secure utilities serving the flooded area as required to maintain safety.

Response to Major Flooding

Security must exclude access to the flooded area by all pedestrians and vehicles. Access should be allowed to emergency responders only. Rescue should be initiated for any trapped occupants.

The Fire Department should be called to assist in rescue and water management.

Facilities engineers should turn-off and secure utilities and elevators within the flooded area.

The flow of water should be directed away from/ or out of structural areas, if possible.

Water or fire sprinkler pipes contributing to the flooding should be shut off. Fire sprinklers should be controlled by wedges or sectional valves when possible to maintain fire protection for other portions of the building.

Contracting of services may be required to remove large volumes of water.

3. HAZARDOUS MATERIALS/SUBSTANCE RELEASE

Chemical threats within the facility are limited to household chemicals and agents, and chemicals used at the water-treatment facility.

The most significant potential for release of hazardous substances is from either malicious or criminal intent, and generally involves dispersal of agents harmful to humans through either airborne inhalation, or skin-dermal contact. These agents could range from common pepper spray to toxic or explosive agents used in terrorism related events. Typically, haz. mat. releases may be initially difficult to determine, and may involve substances which cannot be observed visually. Frequently, signs and symptoms of injured people are the primary signs of a release.

The following procedure should apply to suspected hazardous materials releases:

SECURITY, FACILITIES, OR OTHER STAFF RESPONSIBILITIES:

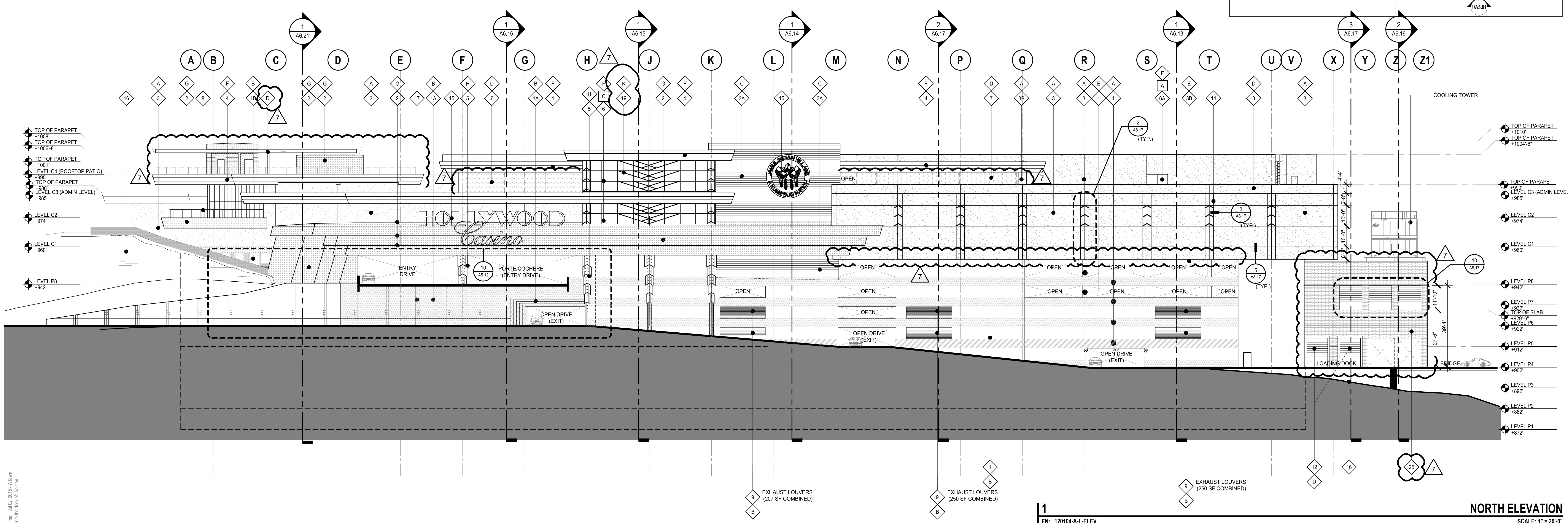
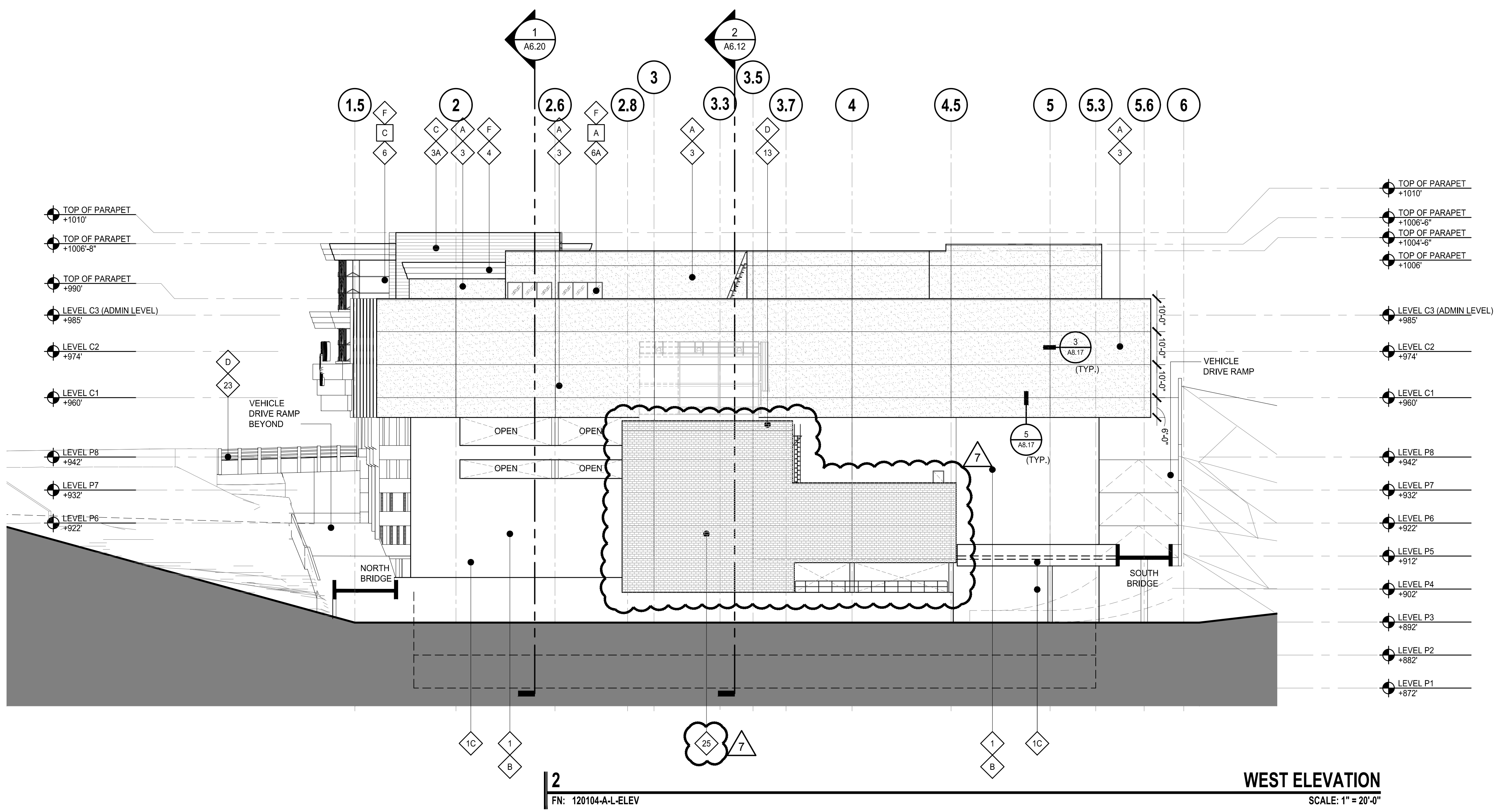
1. Isolate the area. Deny entry to all except protected emergency responders. Notify Security.
2. Evacuate injured or exposed persons, but isolate them from contact with others.
3. In the event of symptomatic response to exposure, immediately remove victim's clothes and shower, preferably in an area where runoff may be contained. Bag and retain all clothes in a safe area.
4. Notify fire and law enforcement for response.
5. Provide medical care to support critical patients. Rescuers decontaminate prior to leaving the area.
6. Isolate HVAC and exhaust systems to prevent migration of hazardous substances, as required.
7. Identify containers or methods of agent dispersal, if present. Do not remove from the scene unless necessary to control agent emissions and safe to do so. Dike area to retain liquids, if present.
8. Be prepared to evacuate casino or parking areas to protect people from exposure, or to protect against incident expansion.
9. Do not take aggressive or direct-contact actions against suspected chemicals, agents, or containers unless specifically trained and equipped to do so.

FIRE AND LAW RESPONSIBILITIES

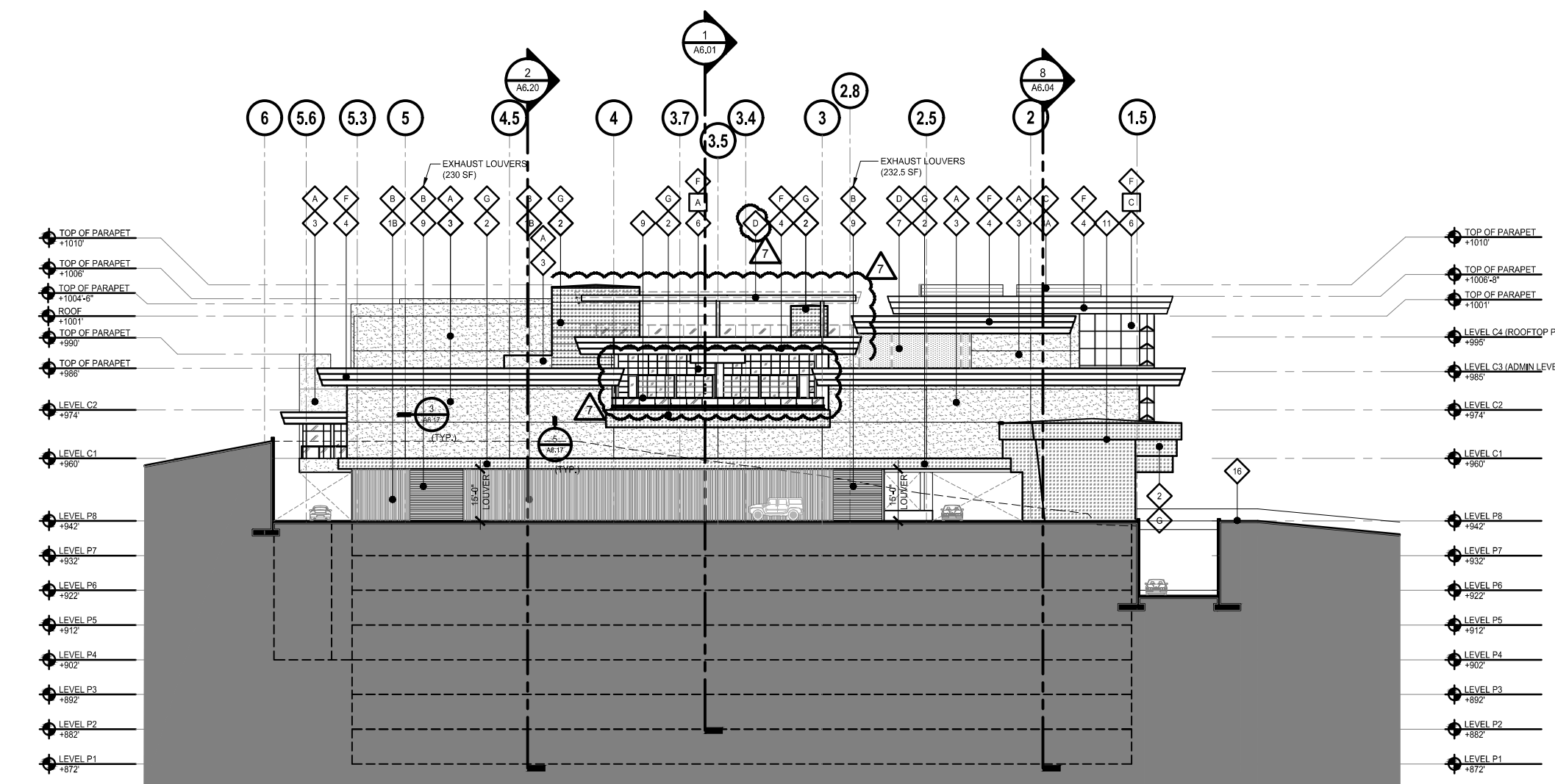
1. Implement Haz Mat response protocols per OSHA, fire training, and medical requirements.
2. Use full protective equipment and monitoring to determine hazards and extent present.

Section VI. Facility Maps and Drawings

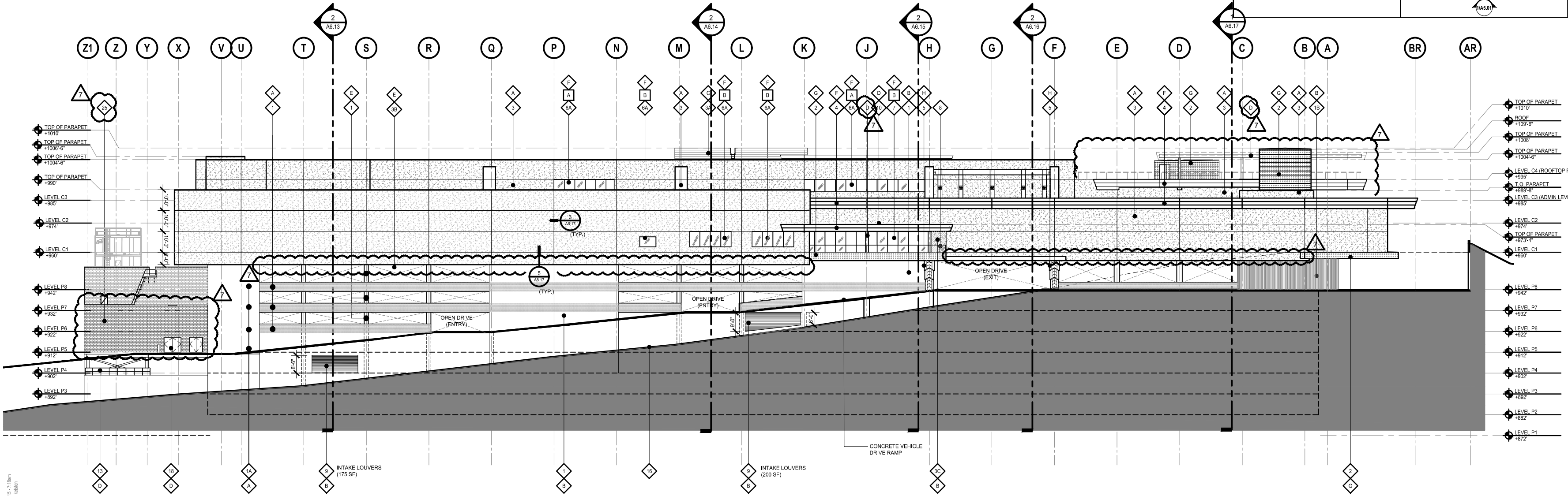
FINISH LEGEND	ELEVATION NOTES
<ul style="list-style-type: none"> ◇ SW 7536 BITTERSWEET STEM ◇ SW 6088 NUTHATCH ◇ SW 7503 STICKS AND STONES ◇ SW 2808 ROCKWOOD DARK BROWN ◇ SW 7551 GREEK VILLA ◇ PPG DURANAR SUNSTORM-LEXUS BRONZE ◇ THERMOCROMEX FINISH ID #1355.33 ◇ MATCH ARCHITECT'S SAMPLE- CHOCOLATE. ◇ NOT USED ◇ PRISMATIC POWDERS "LE REVE BRONZE" UMB 5376 / METALLIC 	<ol style="list-style-type: none"> 1. PAINT COLOR TRANSITION SHALL TERMINATE ON INSIDE CORNERS ONLY. 2. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING INFORMATION. 3. ALL CONCRETE TO BE FINISHED WITH 2 COATS SW "LOXON" VERTICAL OPAQUE STAIN #31 SERIES U/A/O 4. ALL EXPOSED STRUCTURAL STEEL (FERROUS METAL SHALL BE FINISHED AS FOLLOWS: <ul style="list-style-type: none"> - PREPARATION - BLAST CLEAN SPCC-57 - PREPARATION - GALVANNEED SPCC-57H SOLVENT CLEAN - PRIMER - SHERWIN WILLIAMS PRO INDUSTRIAL PROCRYL - TOPCOAT - SHERWIN WILLIAMS SHERCRYL HPA (HIGH PERFORMANCE ACRYLIC) 5. ORNAMENTAL STEEL TO BE POWDER COATED.
GLASS TYPES	ELEVATION REFERENCE NOTES
<ul style="list-style-type: none"> A 1" INSULATING GLASS "GUARDIAN" SUNGUARD SUPER NEUTRAL LOW-E E227 #2 ON CRYSTAL GRAY B 1" INSULATING GLASS "GUARDIAN" SUNGUARD SUPER NEUTRAL LOW-E E227 #2 ON GRAY C 1" INSULATING GLASS "PANELITE" CLEARSHADE CS-1A-12.7 D 1" INSULATING GLASS "GUARDIAN" SUNGUARD SUPER NEUTRAL LOW-E E227 #2 ON CLEAR E 1 5/8" INSULATING GLASS UNIT "PILKINGTON" PYROSTOP # 90-261 	<ul style="list-style-type: none"> ◇ CAST-IN-PLACE CONCRETE - OPAQUE STAIN FINISH ◇ CAST-IN-PLACE CONCRETE W/ SCORED GROOVES - OPAQUE STAIN FINISH ◇ CAST-IN-PLACE CONCRETE W/ FORMLINER "FITZGERALD" LARGE RUSTIC PLANK PATTERN #220 (VERTICAL APPLICATION) - OPAQUE STAIN FINISH ◇ CAST-IN-PLACE CONCRETE (NO FINISH) ◇ 1/2" THK "THERMOCROMEX" ON 1/2" BASE COAT ON METAL LATH ON SUBSTRATE AS SHOWN IN ARCH. DWGS. ◇ EIFS "DRYVIT" PRESSURE EQUALIZED RAINSCREEN SAND BLAST TEXTURE, INTEGRAL COLOR ◇ EIFS "DRYVIT" PRESSURE EQUALIZED RAINSCREEN, PROFILED AS SHOWN IN ARCHITECTURAL DWGS., SAND BLAST TEXTURE, INTEGRAL COLOR ◇ EIFS "DRYVIT" DIRECT APPLIED ACRYLIC, SAND BLAST TEXTURE, INTEGRAL COLOR ◇ "HIGH IMPACT" EIFS "DRYVIT" DIRECT APPLIED ACRYLIC, SAND BLAST TEXTURE, INTEGRAL COLOR ◇ .060 ALUMINUM FASCIA, KYNAR FINISH ◇ GFRG COLUMN COVER, INTEGRAL FINISH AND COLOR ◇ GFRG BEAM WRAP, INTEGRAL FINISH AND COLOR ◇ ALUMINUM CURTAINWALL SYSTEM- "EFCO" SYSTEM 5500, KYNAR FINISH ◇ ALUMINUM STOREFRONT/RIBBON SYSTEM- "EFCO" SYSTEM 955, KYNAR FINISH ◇ TOP FIRE-RATED STEEL CURTAINWALL SYSTEM - POWDER COAT FINISH ◇ (FUTURE) FABRIC WRAPPED STEEL EQUIPMENT SCREEN FABRIC TO BE "SERGE FERRELL" W96-4102 (60-20") ◇ GFRG CURTAINWALL STEEL FRAME TO BE PAINTED ◇ EXHAUST INTAKE ACoustICAL LOUVER-"GREENHECK" MODEL # AF-J6001 ◇ FINISH FABRIC ROOF SYSTEM - "SHADEFX" W/ "SERGE FERRELL" SOLIDS W96-4102 FABRIC ◇ EXTERIOR LIGHTING, SEE LIGHTING DWGS. ◇ ROLL-UP DOOR - PAINT FINISH. ◇ STEEL PIPE GUARDRAIL, PAINT FINISH. ◇ EIFS REVEAL - SEE DETAIL 5/A8.17 ◇ SIGNAGE ◇ FINISH GRADE ◇ GROOVES TO MATCH SHOTCRETE WALL ◇ HOLLOW METAL DOORS ◇ ALUMINUM MUNTIN ◇ ORNAMENTAL STEEL MUNTINS ◇ HOLLOW METAL DOOR/1" CORRUGATED ALUMINUM FASCIA AND FLAT A.360 ALUMINUM CEILING PANELS. ◇ ORNAMENTAL STAINLESS STEEL AND STONE COLUMN COVER. ◇ STEEL CRASH BARRIER ◇ ACCESSIBLE PARKING SIGN MOUNTED ON DOOR, SEE DETAIL 5/A8.42 FOR SIGN INFORMATION ◇ SPLIT FACE CMU BLOCK - "RCP BLOCK & BRICK" COLOR RUBBLE
KEY PLAN	



Drawn & Title: J.L.O. 2/15/15 - 2:15pm
Printed from the desk of: J.L.O.



2
 FN: 120104-A-L-ELEV
EAST ELEVATION
 SCALE: 1" = 20'-0"



1
 FN: 120104-A-L-ELEV
SOUTH ELEVATION
 SCALE: 1" = 20'-0"

FINISH LEGEND	ELEVATION NOTES
<ul style="list-style-type: none"> ◆ SW 7536 BITTERSWEET STEM ◆ SW 6088 NUT HATCH ◆ SW 7503 STICKS AND STONES ◆ SW 2808 ROCKWOOD DARK BROWN ◆ SW 7551 GREEK VILLA ◆ PPG DURANAR SUNSTORM-LEXUS BRONZE ◆ THERMOCROMEX FINISH ID #1355.33 ◆ MATCH ARCHITECT'S SAMPLE-CHOCOLATE. ◆ NOT USED ◆ PRISMATIC POWDERS "LE REVE BRONZE" UMB 5376 / METALLIC 	<ol style="list-style-type: none"> 1. PAINT COLOR TRANSITION SHALL TERMINATE ON INSIDE CORNERS ONLY. 2. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING INFORMATION. 3. ALL CONCRETE TO BE FINISHED WITH 2 COATS SW "LOXON" VERTICAL, OPAQUE STAIN #31 SERIES U.N.O 4. ALL EXPOSED STRUCTURAL STEEL (FERROUS METAL SHALL BE FINISHED AS FOLLOWS: - PREPARATION - BLAST CLEAN TO SP-5 - PREPARATION - GALVANNEED SPRK/SP1 SOLVENT CLEAN - PRIMER - SHERWIN WILLIAMS PRO INDUSTRIAL PRIMER - TOPCOAT - SHERWIN WILLIAMS SHERCRYL HPA (HIGH PERFORMANCE ACRYLIC) 5. ORNAMENTAL STEEL TO BE POWDER COATED.
ELEVATION REFERENCE NOTES	
<ul style="list-style-type: none"> ◆ CAST-IN-PLACE CONCRETE - OPAQUE STAIN FINISH ◆ CAST-IN-PLACE CONCRETE - W/ SCORED GROOVES - OPAQUE STAIN FINISH ◆ CAST-IN-PLACE CONCRETE - W/ FORM LINER "FITZGERALD" LARGE KUSTIC PLANK PATTERN 10520 (VERTICAL APPLICATION) - OPAQUE STAIN FINISH ◆ CAST-IN-PLACE CONCRETE (NO FINISH) ◆ 1/2" THK "THERMOCROMEX" ON 1/2" BASE COAT ON METAL LATHE ON SUBSTRATE AS SHOWN IN ARCH. DWGS. ◆ EIFS "DRYVIT" PRESSURE EQUALIZED RAINSCREEN SAND BLAST TEXTURE, INTEGRAL COLOR ◆ EIFS "DRYVIT" PRESSURE EQUALIZED RAINSCREEN, PROTECT AS SHOWN IN ARCHITECTURAL DWGS., SAND BLAST TEXTURE, INTEGRAL COLOR ◆ EIFS "DRYVIT" DIRECT APPLIED ACRYLIC, SAND BLAST TEXTURE, INTEGRAL COLOR ◆ HIGH IMPACT EIFS "DRYVIT" DIRECT APPLIED ACRYLIC, SAND BLAST TEXTURE, INTEGRAL COLOR ◆ .060 ALUMINUM FASCIA, KYNAR FINISH ◆ GFRG COLUMN COVER, INTEGRAL FINISH AND COLOR ◆ GFRG BEAM WRAP, INTEGRAL FINISH AND COLOR ◆ ALUMINUM CURTAINWALL SYSTEM - "EFCO" SYSTEM 5500, KYNAR FINISH ◆ ALUMINUM STOREFRONT/RIBBON SYSTEM - "EFCO" SYSTEM 955, KYNAR FINISH ◆ TOP FIRE-RATED STEEL CURTAINWALL SYSTEM - POWDER COAT FINISH ◆ (FUTURE) FABRIC WRAPPED STEEL EQUIPMENT SCREEN FABRIC TO BE "SERGE FERRARI" PRO CONSTRAINT 600-000 ◆ GLASS CURTAINWALL STEEL FRAME TO BE PAINTED ◆ EXHAUST INTAKE ACOUSTICAL LOUVER-"GREENHECK" MODEL # AP-4001 ◆ FIBER FABRIC ROOF SYSTEM - "SHADEFX" W/ "SERGE FERRARI" SOL TS 106-6102 FABRIC. ◆ EXTERIOR LIGHTING, SEE LIGHTING DWGS. ◆ ROLL-UP DOOR - PAINT FINISH ◆ STEEL PIPE GUARDRAIL, PAINT FINISH ◆ EIFS REVEAL - SEE DETAIL 5A8.17 ◆ SIGNAGE ◆ FINISH GRADE ◆ GROOVES TO MATCH SHOTCRETE WALL ◆ HOLLOW METAL DOORS ◆ ALUMINUM MUNTIN ◆ ORNAMENTAL STEEL MUNTINS ◆ HOLLOW METAL DOOR/INT CORRUGATED ALUMINUM FASCIA AND FLAT A.060 ALUMINUM CEILING PANELS. ◆ ORNAMENTAL STAINLESS STEEL AND STONE COLUMN COVER. ◆ STEEL CRASH BARRIER ◆ ACCESSIBLE PARKING SIGN MOUNTED ON DOOR - SEE DETAIL 51 A&A2 FOR SIGN INFORMATION. ◆ SPLIT FACE CMU BLOCK - "RCP BLOCK & BRICK" COLOR PUEBLO 	
GLASS TYPES	
<ul style="list-style-type: none"> A 1" INSULATING GLASS "GUARDIAN" SUNGUARD SUPER NEUTRAL LOW-E 6227 #2 ON CRYSTAL GRAY B 1" INSULATING GLASS "GUARDIAN" SUNGUARD SUPER NEUTRAL LOW-E 6227 #2 ON GRAY C 1" INSULATING GLASS "PANELITE" CLEARSHADE CS-TA7-12.7 D 1" INSULATING GLASS "GUARDIAN" SUNGUARD SUPER NEUTRAL LOW-E 6227 #2 ON CLEAR E 1.5 (8") INSULATING GLASS UNIT "PLKINGTON" PYROSTOP # 60-261 	
KEY PLAN	

MARNELL ARCHITECTURE
 ARCHITECTURE · PLANNING · DESIGN

223 VA MARNELL WAY LAS VEGAS, NEVADA 89119 | (702) 799-5000 | WWW.MARNELL.COM/MARNELL.COM

DATE: 02 MAR 2015
 SCALE: AS NOTED
 JOB NO: MA 132037
 SHEET: A 28 JUN 2015

CHECKED: RR
 DRAWN: AM

BUILDING ELEVATIONS

HOLLYWOOD CASINO
 JAMUL, CA

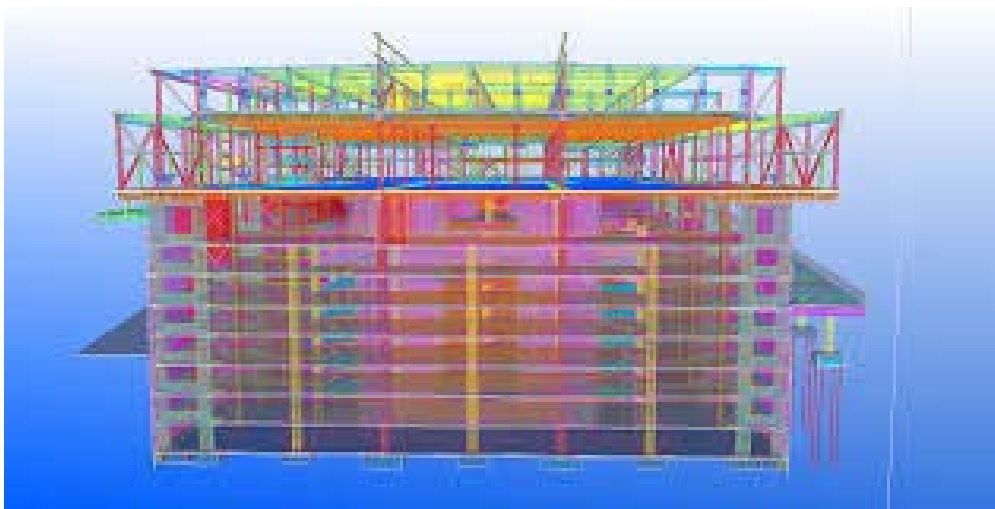
A5.01

ISSUED FOR CONSTRUCTION



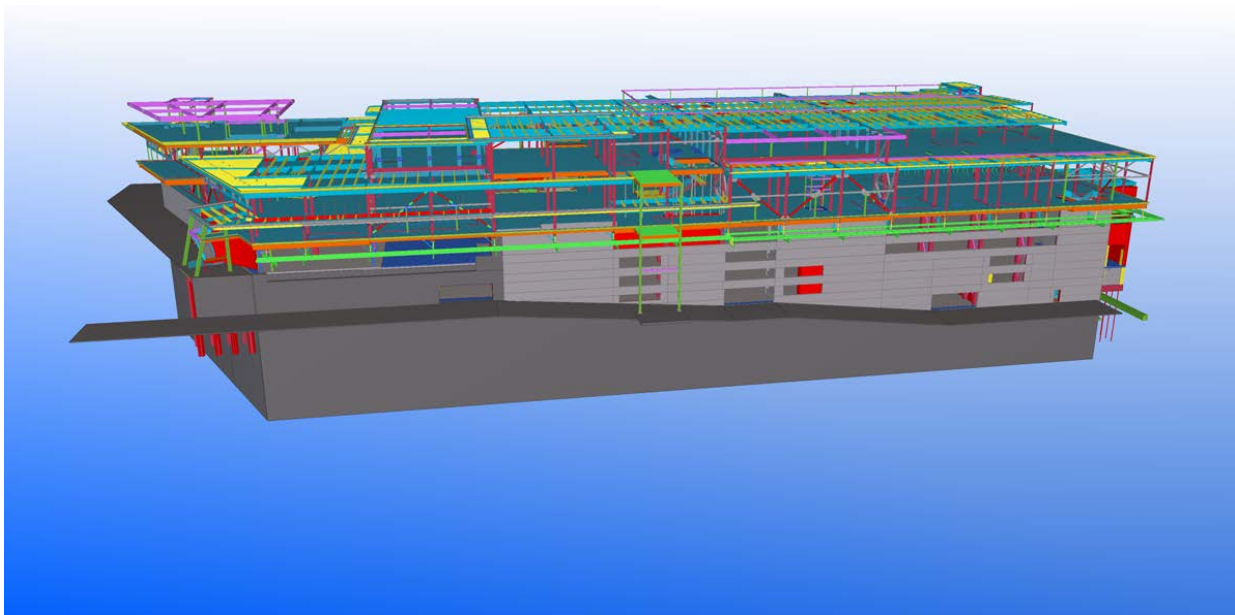
- A: Casino/Parking Garage
- B: Waste-Waer Treatment Facility
- C. Tribal Community Building
- D. Tribal Administration
- E. Tribal Church
- F. Historic Graveyard



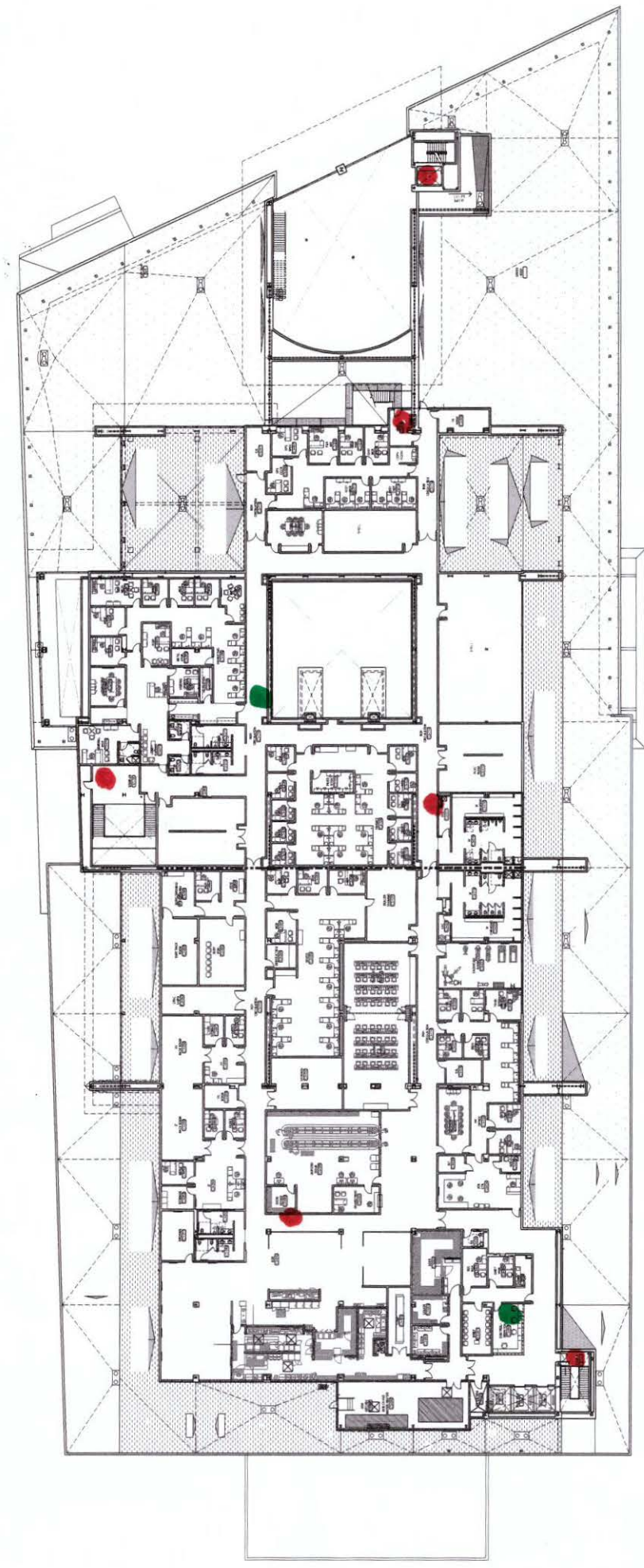


- Floor C3
- Floor C1/C2
- Floor P8 (entrance)
- Floor P7
- Floor P6
- Floor P5
- Floor P4 (ground level)
- Floor P3
- Floor P2
- Floor P1

Casino schematic- Colored areas Floors C1, c2, and C3 Grey areas are parking garage, Floors P1-8
(Floors P1-3 are below ground)

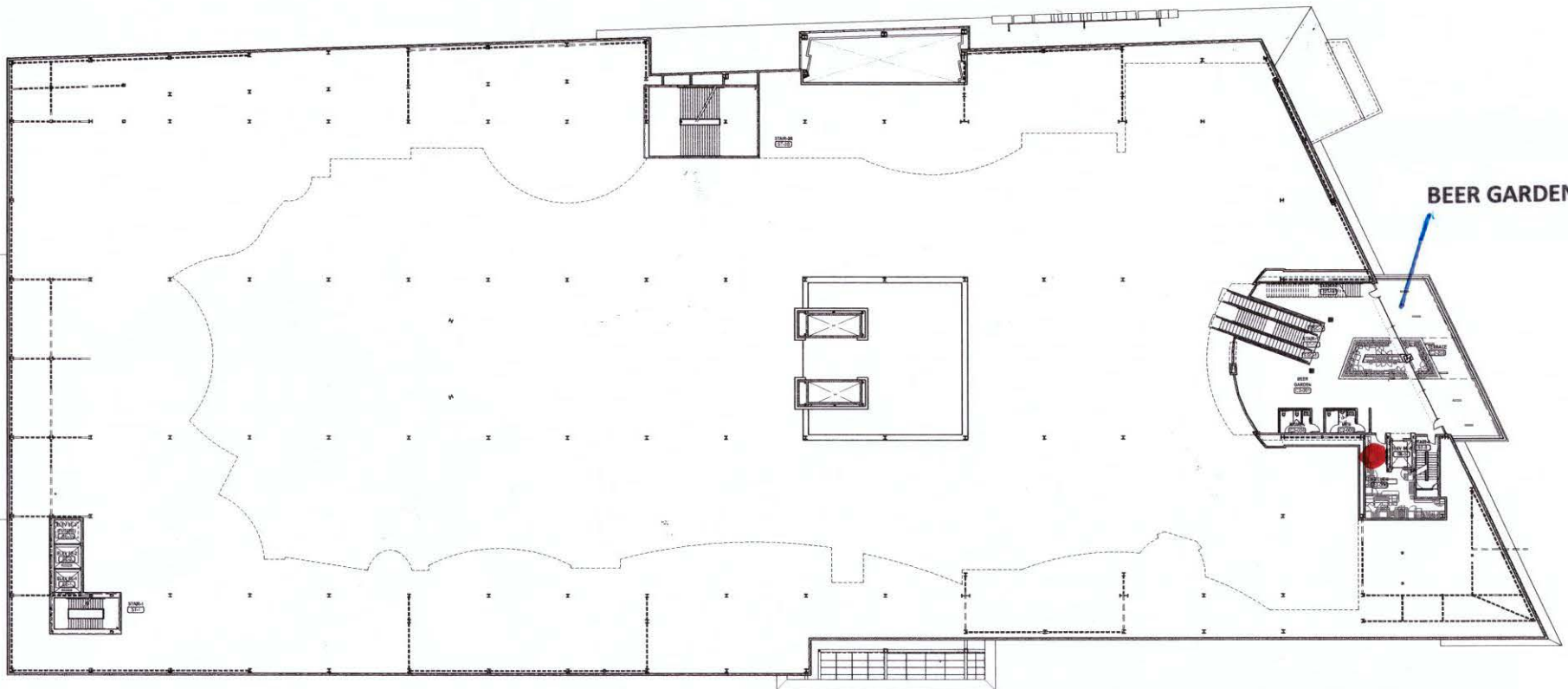


ADMINISTRATIVE FLOOR



HOLLYWOOD CASINO
Floor C3

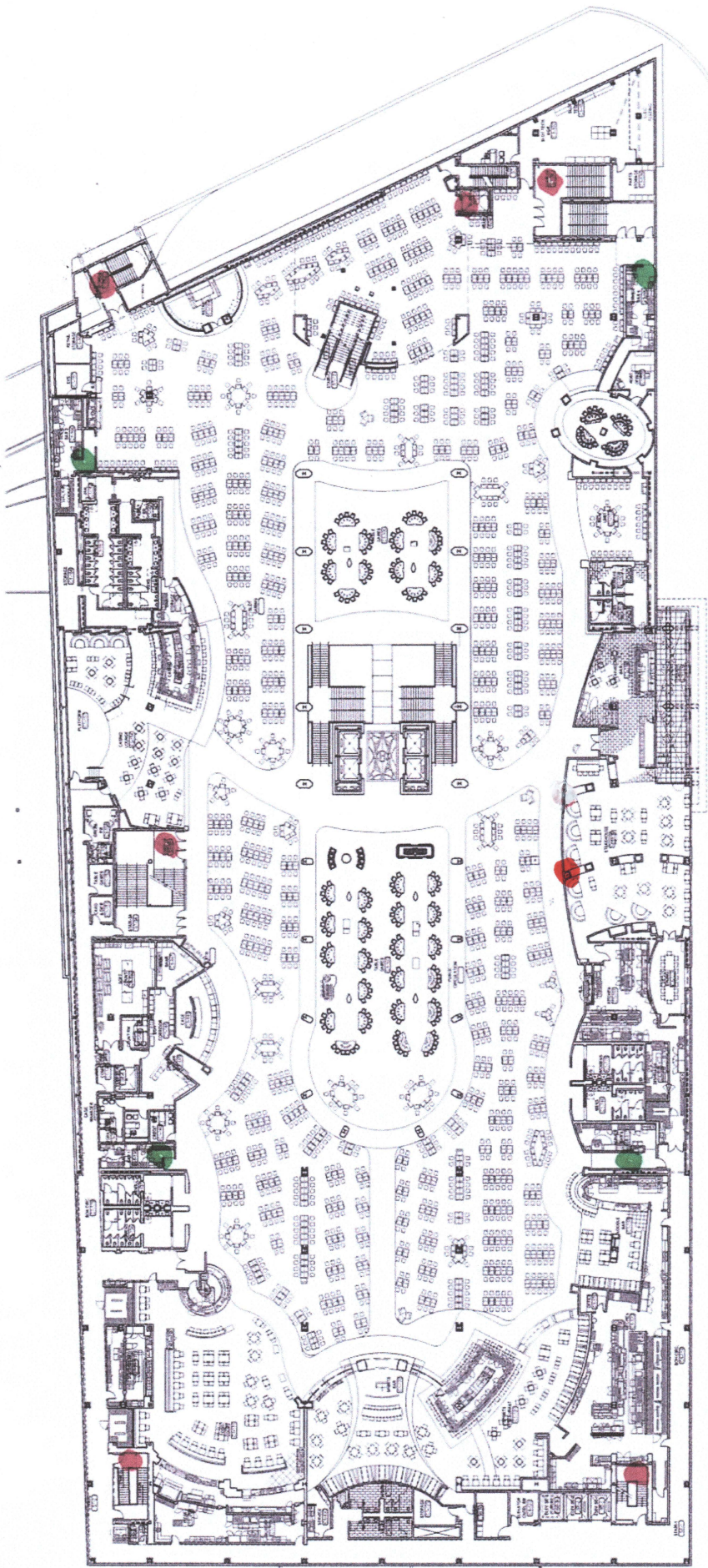
-  Fire Riser
-  AED
-  Fire Hydrant



HOLLYWOOD CASINO
Floor C2

-  Fire Riser
-  AED
-  Fire Hydrant

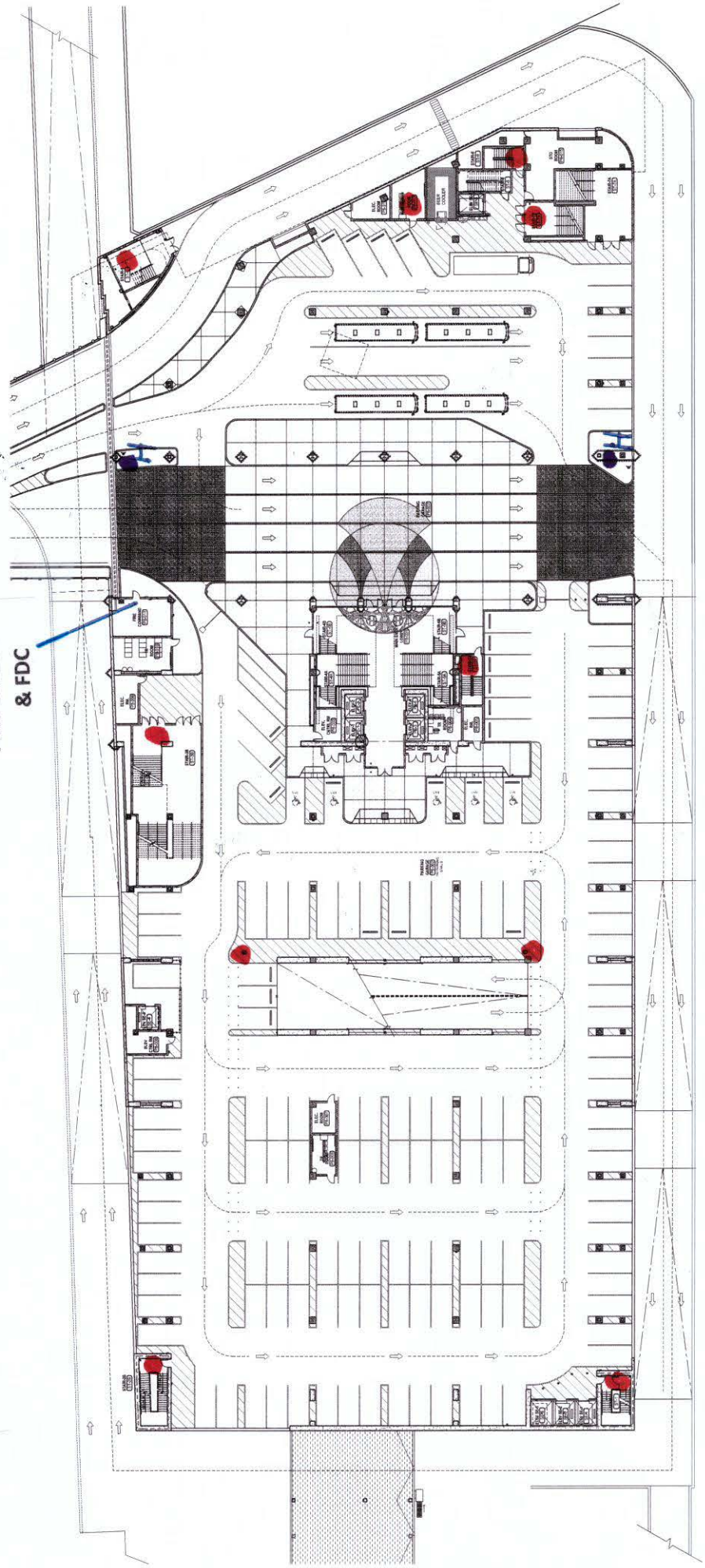
GAMING FLOOR



HOLLYWOOD CASINO
Floor C1

- Fire Riser
- AED
- Fire Hydrant

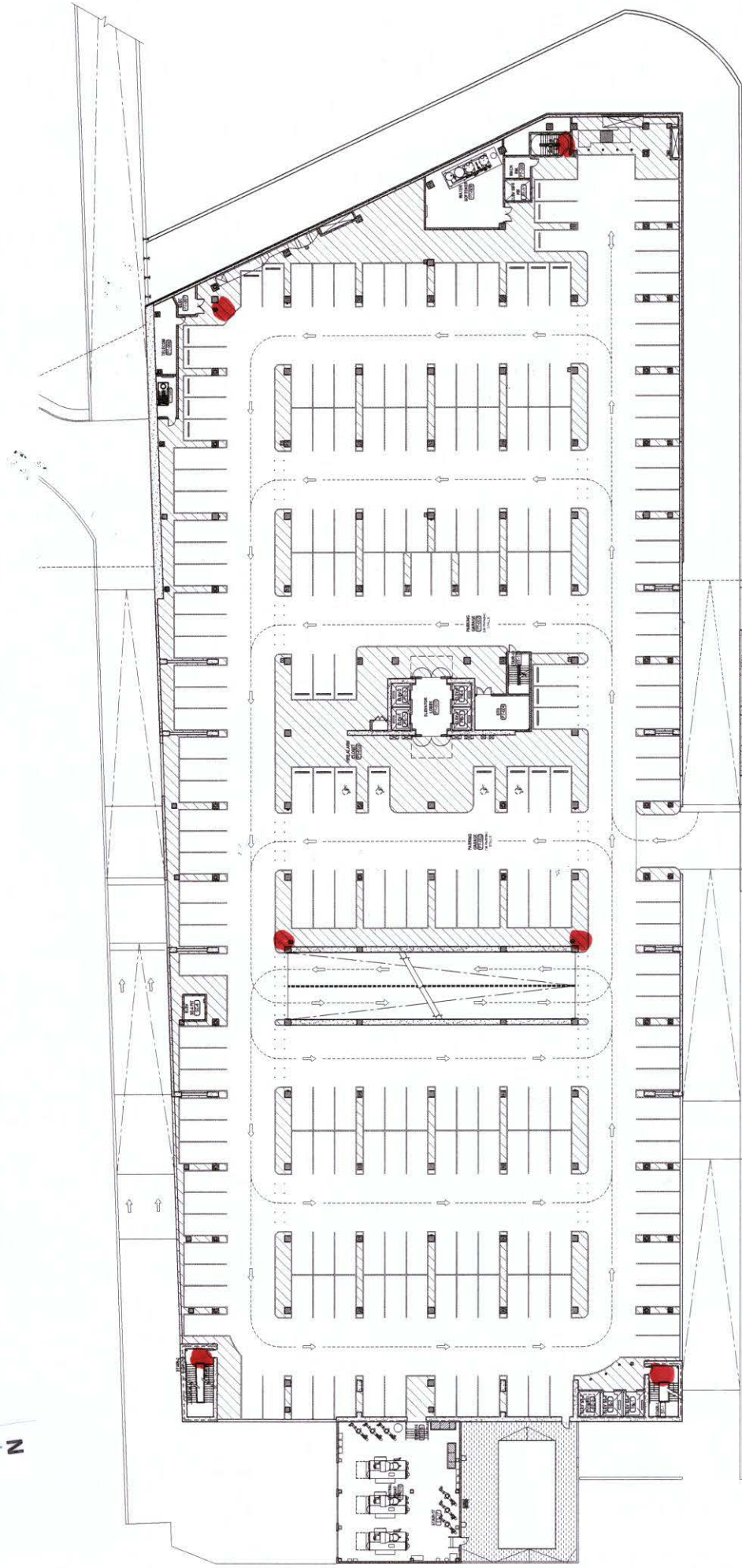
FIRE CMD. CTR.
& FDC



HOLLYWOOD CASINO

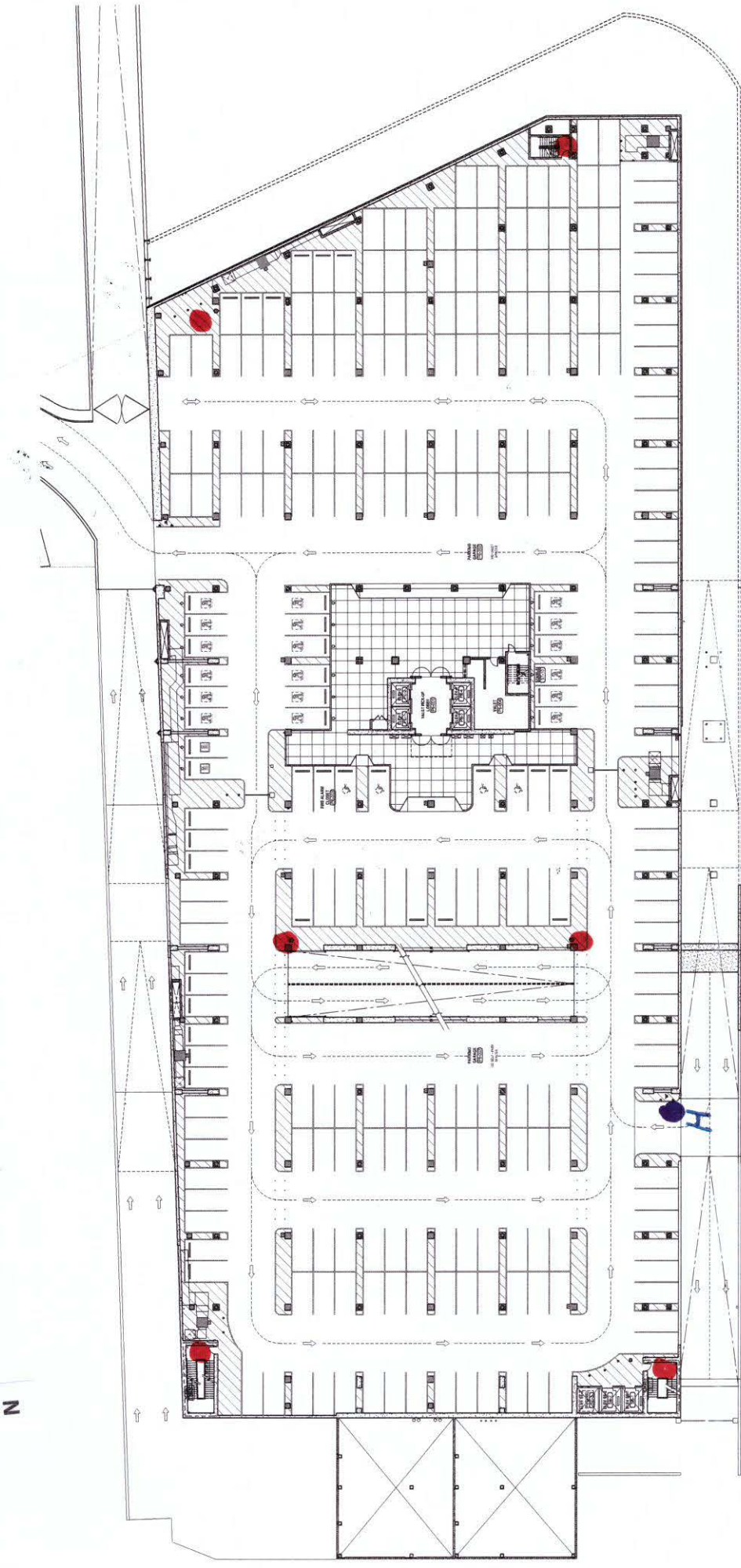
Floor P8

-  Fire Riser
-  AED
-  Fire Hydrant



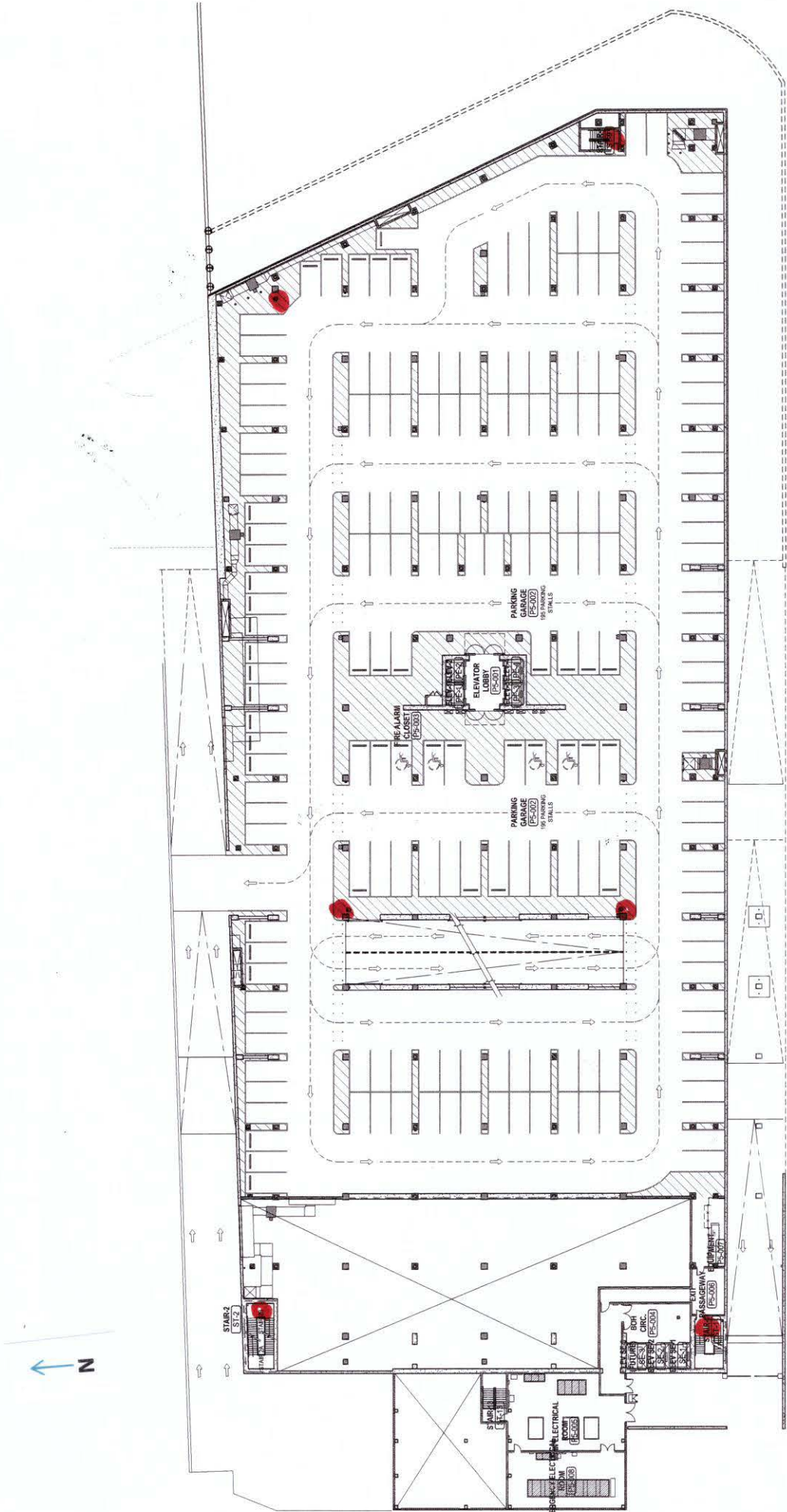
HOLLYWOOD CASINO
Floor P7

	Fire Riser
	AED
	Fire Hydrant



HOLLYWOOD CASINO
Floor P6

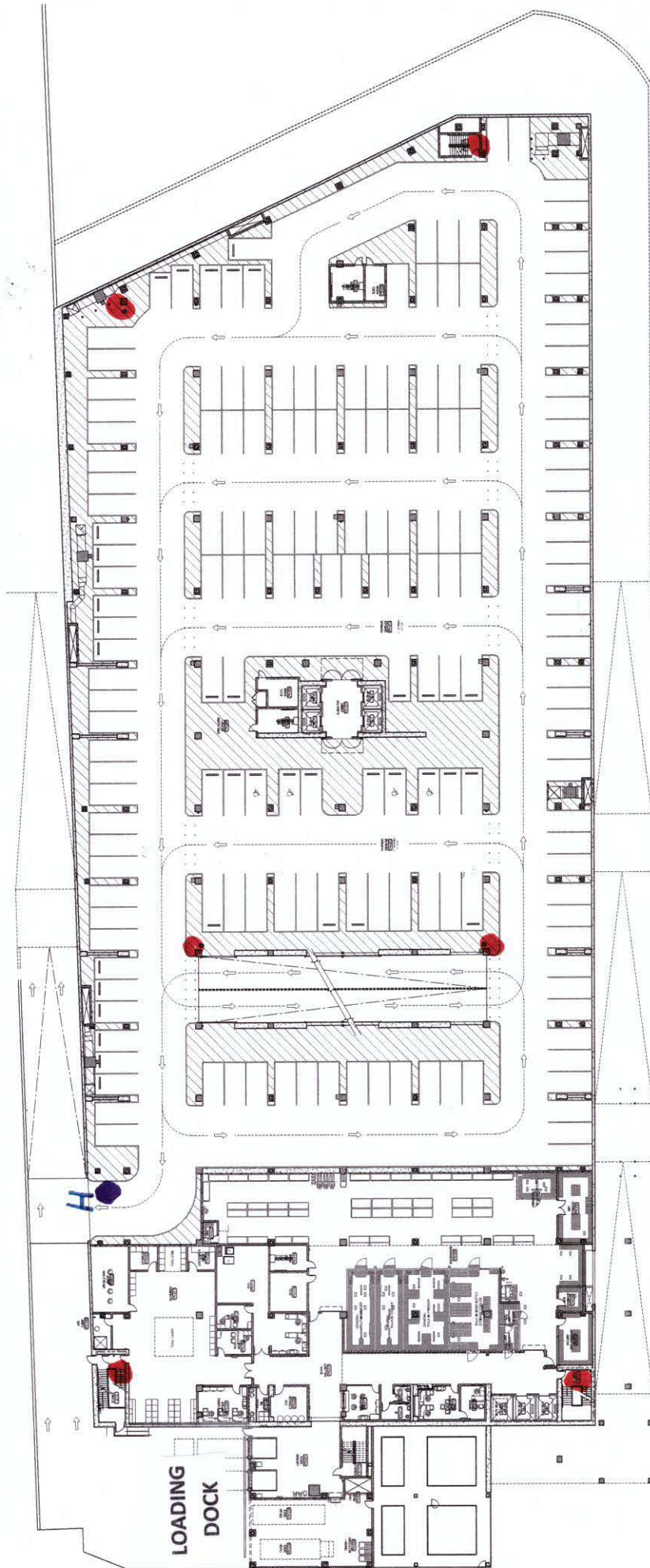
- Fire Riser
- AED
- Fire Hydrant



HOLLYWOOD CASINO
Floor P5

- Fire Riser
- AED
- Fire Hydrant





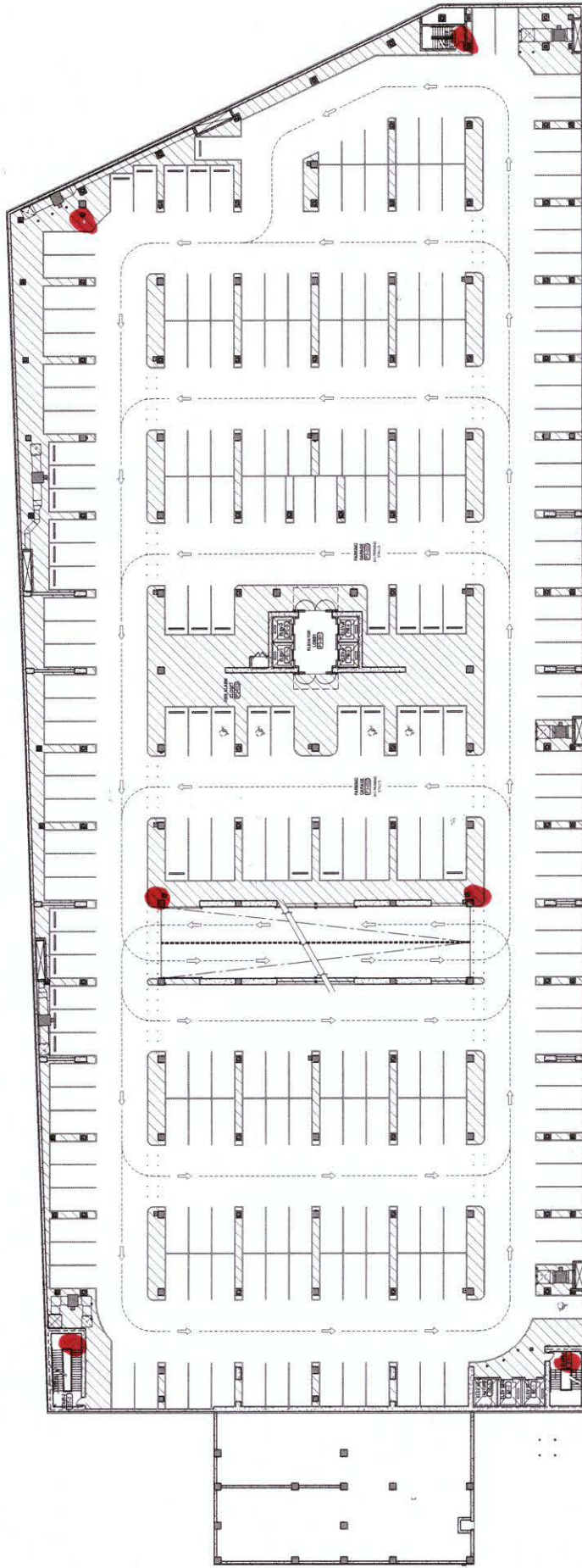
HOLLYWOOD CASINO

Floor P4

● Fire Riser

● AED

H Fire Hydrant



HOLLYWOOD CASINO

Floor P3

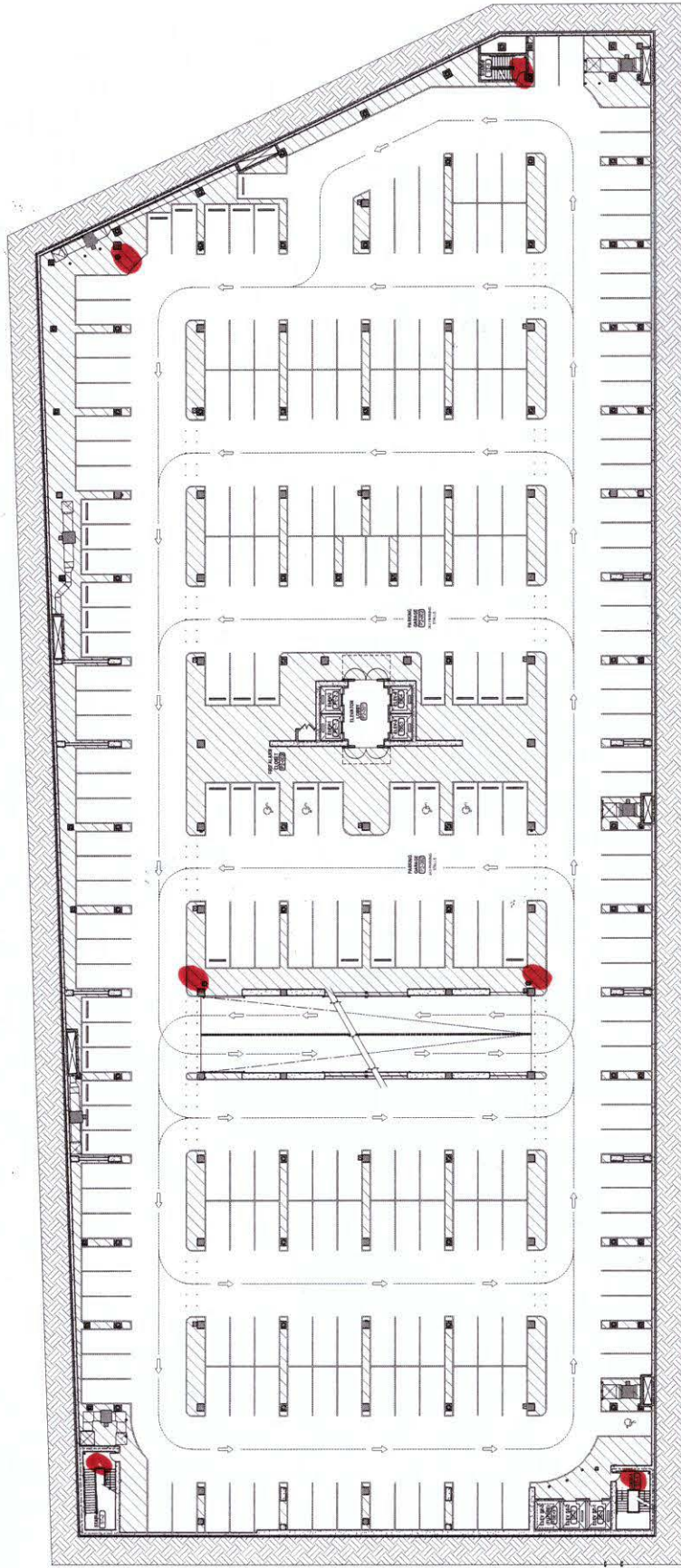
Fire Riser

AED

Fire Hydrant



← N



HOLLYWOOD CASINO

Floor P2

Fire Riser

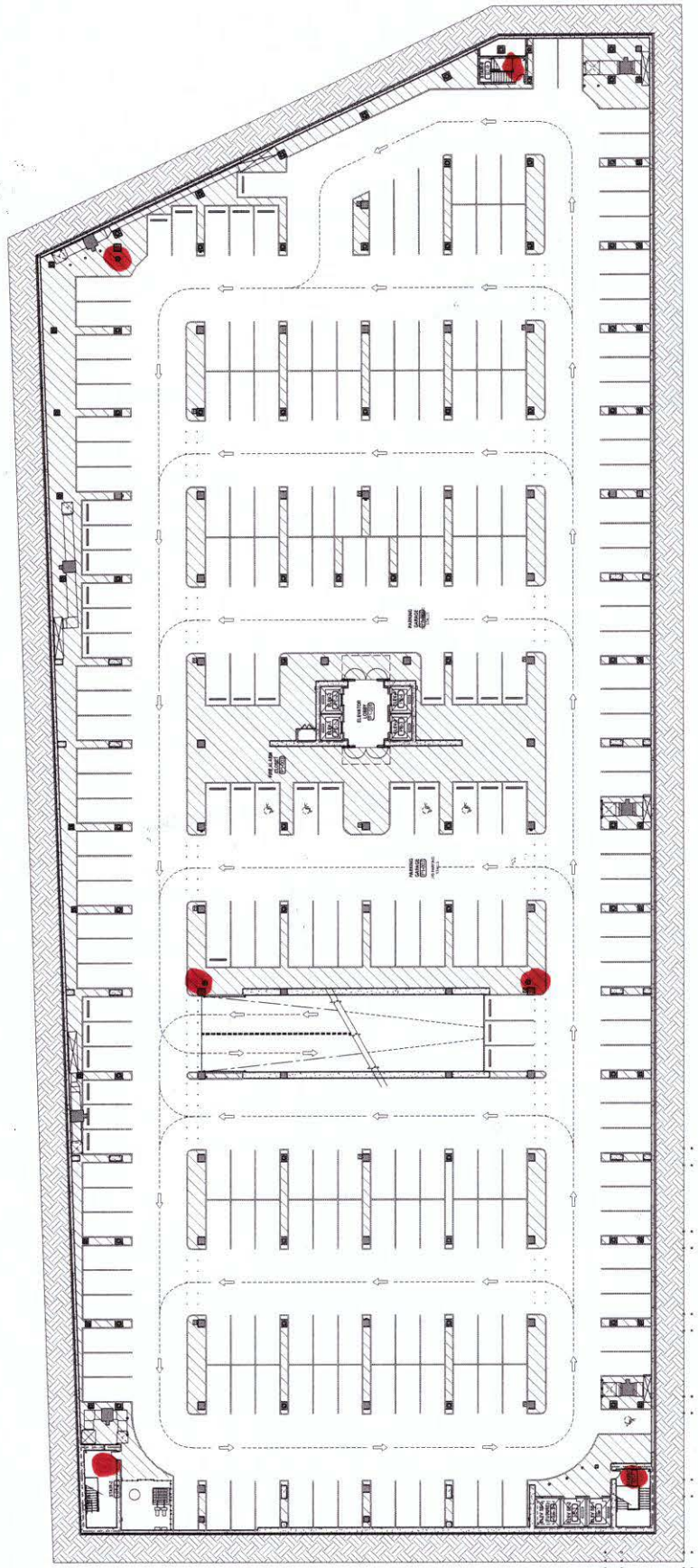


AED



Fire Hydrant





HOLLYWOOD CASINO

Floor P1



Fire Riser



AED



Fire Hydrant

Appendix G

Air Quality and GHG Emissions
Estimates

Project-Specific Inputs – Jamul Casino Hotel and Event Center Project

Input	Type of Input	Proposed Project	Source/Notes
Project Name	Project Name	Jamul Casino Hotel and Event Center Project	Project Description
Project Location	County	San Diego	Project Description
Climate zone	Climate Zone Number	4	Appendix F of CalEEMod User Guide
Land Use Setting	Urban or Rural	Rural	Site and Vicinity Figure
Start of Construction	Date	December 2022	Section 2 of the TEIR
Operational Year	1st year of operation after full buildout.	2024	Section 2 of the TEIR
Utility Company	Utility Company Name	San Diego Gas & Electric	SDG&E
Land Use Type and Subtype	Residential, Commercial, Recreation, etc.	See Table 1	See Table 1
Unit Amount	Size of Buildings or Number of units for each Land Use Type.	See Table 1	See Table 1
Lot Acreage	Acreage of each Land Use Type	See Table 1	See Table 1
Population	Population based on persons/household	Default	Default
Construction Phases	Type of construction phase (Demo, Site Prep, etc.) and beginning and ending dates	See Table 2	See Table 2
Off-Road Equipment	Type of equipment (Excavator, Dozer, etc.) and number of units per construction phase	See Table 2	See Table 2
Dust From Material Haul	Import/Export Material (Cu Yd or Tons)	20,000 CY export	Section 2 of the TEIR
	Total Acres Graded	1.25	Site plan
Demolition	Sq ft or tons of Demo (Tons or Sqft)	3,000 sq ft	Site plan
Construction Trip Gen Rate	Average number of one-way trips per day	Default	Defaults
Operational Trip Reductions	% reduction in trips.	See Table 3	See Table 3
Operational Trip Gen Rate and trip length	Trips and trip lengths	See Table 3	See Table 3
Area Sources	Hearths – # of wood-burning fireplaces, # of gas fireplaces, and # of units with no fireplace.	NA	No hearths are included in project design.

Project-Specific Inputs – Jamul Casino Hotel and Event Center Project (cont.)

Input	Type of Input	Proposed Project	Source/Notes
Energy Use	Project Specific Emission Factors.	See Table 4	See Table 4
Water and Wastewater	Indoor and outdoor water use for each Land Use Subtype in gallons per year.	See Table 1	See Table 1
Solid waste	Tons of solid waste generated per year	Hotel: Default Event Center (3.12 lbs/100 sf/day): 200	CalRecycle published waste generation rates for commercial facilities; Section 2 of the TEIR
	Land Fill No Gas Capture, Landfill Capture Gas Flare Rate	Default	CalEEMod 2020.4.0 Default
Operational off-road equipment	Excavator, Dozer, etc.	--	--
Stationary Sources	Emergency Generators	Two 500-KW (670 HP) emergency gen/sets operating 500 hours per year	Section 2 of the TEIR
Land Use Change	Vegetation land use type (cropland, etc.) and initial and final acreage	No change	GIS analysis
Sequestration	Type and net number of new trees added	Not Applicable	Insignificant increase in the number of trees on project site for modeling purposes

Table 1: Land Use Inputs

Land Use Inputs						
Land Use Type	Land Use Subtype ¹	Unit Amount	Size Metric	Lot Acreage	Square Feet	Water Demand (gal/yr) ²
Recreational	Hotel	225	rooms	0.5	253,390	29,560,255
Commercial	User Defined (Event Center)	51	ksf	0	50,983	
Commercial	General Office Building	3	ksf	0.25	3,000	
Parking	Unenclosed Parking Structure with Elevator	290	spaces	0.5	111,415	

Notes:

ksf = 1,000 square feet

1 - Source: Section 2, Project Description.

2 - Source: Wastewater and Water Report, Appendix C.

Table 2: Construction Phases and Equipment

Equipment	Construction Phase Activities					
	Demolition (12/15/22 – 1/11/23)	Site Preparation (1/12/23 – 1/25/23)	Grading (1/26/23 – 5/10/23)	Construction (5/11/23 – 7/31/24)	Paving (8/1/23 – 8/21/23)	Architectural Coating (5/1/24 – 7/30/24)
All Heavy Equipment	Default	Default	Default	Default	Default	Default
Worker Trips	Default	Default	Default	Default	Default	Default
Soil Haul Trips	Default	Default	Default	Default	Default	Default
Soil Haul	Default	Default	Default	Default	Default	Default
Total Days	20	10	75	320	15	65

Table 3: Trip Generation

Land Use Subtype	Daily Trip Generation Rate ¹		Average Trip Length (miles) ²			Trip Type (%)			Trip Purpose (%) ³		
	Weekday	Saturday/Sunday	Commercial-Customer Trips (C-C)	Commercial - Work Trips (C-W)	Commercial-Nonwork Trips (C-NW)	Primary	Diverted	Pass-By	Commercial-Customer Trips(C-C)	Commercial-Work Trips (C-W)	Commercial-Nonwork Trips (C-NW)
Recreational Hotel	3	3	15	Default	15	Default	Default	Default	Default	Default	Default
Commercial User Defined (Event Center)	11.5	11.5	15	Default	15	Default	Default	Default	61.6	19.4	19
Commercial General Office Building	0	0	Default	Default	Default	Default	Default	Default	Default	Default	Default

Notes:

- 1 Trip Generation Rates for Casino and Event Center adjusted for consistency with Trip Generation Analysis (Kimley-Horn, 2022).
- 2 Average trip length for customer and non-work trips based on distance from San Diego metro area to project site.
- 3 All Trip Purpose percentages, with exception of the Event Center, are CalEEMod default values. The Event Center Trip Purpose is based on default hotel values.

Table 4: Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (KWhr/size/yr)	Nontitle-24 Electricity Energy Intensity (KWhr/size/yr)	Lighting Energy Intensity (KWhr/size/yr)	Title-24 Natural Gas Intensity (KBtu/size/yr)	Non-title-24 Natural Gas Intensity (KBtu/size/yr)
Recreational Hotel	Default	Default	Default	Default	Default
Commercial User Defined (Event Center)	7.35	23.69	6.78	35.56	138.46
Commercial General Office Building	Default	Default	Default	Default	Default

Notes: Event Center energy use based on CalEEMod default values for quality restaurant energy use.

Table 5: Off-Road Equipment Mitigation Inputs

Equipment Type	Engine Tier	Number of Equipment Mitigated	Diesel Particulate Filter (DPF) Level 2014
All Equipment	Default	Default	Default

Mitigation Inputs – Jamul Casino Hotel and Event Center Project

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Off-Road Equipment	C-1	Yes	Engine Type, DPF Level, and Oxidation Catalyst	See Table 5.	See Table 5.
Soil Stabilizer for Unpaved Roads	N/A	Yes	PM ₁₀ (% Reduction)	10%	Default % Reduction.
	N/A		PM _{2.5} (% Reduction)	10%	Default % Reduction.
Water Exposed Area	N/A	Yes	Frequency (per day)	2 times per day	Section 2 of the TEIR
	N/A		PM ₁₀ (% Reduction)	55%	Default % Reduction.
	N/A		PM _{2.5} (% Reduction)	55%	Default % Reduction.
Replace Ground Cover of Area Disturbed	N/A	No	PM ₁₀ (% Reduction)	--	
	N/A		PM _{2.5} (% Reduction)	--	
Unpaved Road Mitigation	N/A	No	Moisture Content (%)	--	--
	N/A	Yes	Vehicle Speed (mph)	15 mph	Section 2 of the TEIR
Type of Residential	N/A	No	Type of Residential	--	--
Increased Density	LUT-1	No	Dwelling Units/Acre	--	--
			Job/Job Acre	--	--
Increased Diversity	LUT-3	No	Yes or No	--	--
Improved Walkability Design	LUT-9	No	Intersections/Square Miles	--	--
Improve Destination Accessibility	LUT-4	No	Distance to Downtown/Job Ctr	--	
Increased Transit Accessibility	LUT-5	No	Average Distance to Transit Station (miles)	--	
Integrated Below Market Rate Housing	LUT-6	No	# Dwelling Units Below Market Rate	--	
Improve Pedestrian Network	SDT-1	No	Yes or No; Project Site, Project Site and Connecting off-site, and Rural	--	--

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Mitigation Inputs – Jamul Casino Hotel and Event Center Project (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Provide Traffic Calming Measures	SDT-2	No	% Streets with Improvement	--	--
		No	% Intersections with Improvement	--	
Implement Neighborhood Electric Vehicle (NEV) Network	SDT-3	No	% of streets equipped with NEV network.	--	
Limit Parking Supply	PDT-1	No	% Reduction in Spaces	--	
Unbundled Parking Costs	PDT-2	No	Monthly Parking Costs (\$)	--	
On-Street Market Pricing	PDT-3	No	% Increase in Price	--	
Provide a Bus Rapid Transit System	TST-1	No	% Lines BRT	---	--
Expand Transit Network	TST-3	No	% Increase Transit Coverage	--	
Increase Transit Frequency	TST-4	No	Level of Implementation	--	
		No	% Reduction in Headways	--	
Implement Trip Reduction Program	TRT-1, TRT-2	No	% employee eligible	--	
		No	Program Type	---	--
Transit Subsidy	TRT-4	No	% employee eligible	--	
		No	Daily Transit Subsidy Amount (\$)	--	
Implement Employee Parking "Cash-Out"	TRT-15	No	% employee eligible	--	
Workplace Parking Charge	TRT-14	No	% employee eligible	--	
		No	Daily Parking Charge (\$)	--	--
Encourage Telecommuting and Alternative Work Schedules	TRT-6	No	% employee work 9/80	--	
		No	% employee work 4/40	--	
		No	% employee telecommute 1.5 days	--	

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Mitigation Inputs – Jamul Casino Hotel and Event Center Project (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Market Commute Trip Reduction Option	TRT-7	No	% employee eligible	--	--
Employee Vanpool/Shuttle	TRT-11	No	% employee eligible	--	--
		No	% vanpool mode share	--	--
Provide Ride Sharing Program	TRT-3	No	% employee eligible	--	--
Implement School Bus Program	TRT-13	No	% family using	--	--
Only Natural Gas Hearth	N/A	No	Yes or No	--	--
No hearth	N/A	No	Yes or No	--	--
Use of Low VOC Cleaning Supplies	N/A	No	Yes or No	--	--
Use low VOC Paint (Residential Interior)	N/A	Yes	Emission Factor (EF) (g/l)	50	San Diego APCD Rule 67.0.1
Use low VOC Paint (Residential Exterior)	N/A	Yes	EF (g/l)	50	San Diego APCD Rule 67.0.1
Use low VOC Paint (Non-residential Interior)	N/A	Yes	EF (g/l)	50	San Diego APCD Rule 67.0.1
Use low VOC Paint (Non-residential Exterior)	N/A	Yes	EF (g/l)	50	San Diego APCD Rule 67.0.1
Electric Lawnmower	A-1	No	Percent of equipment type that will be electric.	--	
Electric Leafblower	A-1	No	Percent of equipment type that will be electric.	--	
Electric Chainsaw	A-1	No	Percent of equipment type that will be electric.	--	
Exceed Title 24	BE-1	No	Percentage improvement selected for the Project.	--	

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Mitigation Inputs – Jamul Casino Hotel and Event Center Project (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Install High Efficiently Lighting	LE-1	Yes	% Lighting Energy Reduction	16	CAPCOA, 2010.
On-site Renewable Energy	E-1, AE-2, AE-3	No	kWh Generated	--	--
		No	% of Electricity Use Generated	--	--
Energy Efficient Appliances	BE-4	Yes	Appliance Type, Land Use Subtype, % Improvement	Use Default Values	Defaults
Apply Water Conservation Strategy	WUW-2	No	% Reduction Indoor	--	--
		No	% Reduction Outdoor	--	--
Use Reclaimed Water	WSW-1	No	% Indoor Water Use	--	Recycled water use incorporated in project (Section 2 of the TEIR)
		No	% Outdoor Water Use	--	--
Use Grey Water	WSW-2	No	% Indoor Water Use	--	--
		No	% Outdoor Water Use	--	--
Install Low-Flow Bathroom Faucet	WUW-1	Yes	% Reduction in flow	32%	Default % reduction.
Install Low-flow Kitchen Faucet	WUW-1	Yes	% Reduction in flow	18%	Default % reduction.
Install Low-flow Toilet	WUW-1	Yes	% Reduction in flow	20%	Default % reduction.
Install Low-flow Shower	WUW-1	Yes	% Reduction in flow	20%	Default % reduction.
Turf Reduction	WUW-5	No	Turf Reduction Area (sqft)	--	--
		No	% Reduction turf	--	--
Use Water-Efficient Irrigation Systems	WUW-4	No	% Reduction	--	--
Water Efficient Landscape	WUW-3	No	Maximum Applied Water Allowance (MAWA) (gal/yr)	--	
		No	Estimated Total Water Use (ETWU) (gal/yr)	--	--
Institute Recycling and Composting Service	SW-1	Yes	% Reduction in Waste Disposal	50%	Tribe will use County facilities which are required to divert 50 percent of waste from landfills

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Jamul Casino Hotel and Event Center Project
San Diego County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.00	1000sqft	0.25	3,000.00	0
User Defined Commercial	51.00	User Defined Unit	0.00	50,983.00	0
Unenclosed Parking with Elevator	290.00	Space	0.50	111,415.00	0
Hotel	225.00	Room	0.50	253,900.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Trips and VMT - Export of fill to Chula Vista.

Demolition -

Grading - See input tables for assumptions.

Architectural Coating - Compliance with San Diego APCD Rule 67.0.1

Vehicle Trips - See input tables for assumptions.

Area Coating - Compliance with San Diego APCD Rule 67.0.1

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Energy Use - See input tables for assumptions.

Water And Wastewater - See input tables for assumptions.

Solid Waste - See input tables for assumptions.

Construction Off-road Equipment Mitigation - See input tables for assumptions.

Area Mitigation - San Diego APCD Rule 67.0.1

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	4.00	75.00
tblConstructionPhase	NumDays	200.00	320.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	PhaseEndDate	1/13/2023	1/25/2023
tblConstructionPhase	PhaseEndDate	1/19/2023	5/10/2023
tblConstructionPhase	PhaseEndDate	10/26/2023	7/31/2024
tblConstructionPhase	PhaseEndDate	11/9/2023	8/21/2023
tblConstructionPhase	PhaseEndDate	11/23/2023	7/30/2024

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tblConstructionPhase	PhaseStartDate	1/14/2023	1/26/2023
tblConstructionPhase	PhaseStartDate	1/20/2023	5/11/2023
tblConstructionPhase	PhaseStartDate	10/27/2023	8/1/2023
tblConstructionPhase	PhaseStartDate	11/10/2023	5/1/2024
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24NG	0.00	138.46
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24NG	0.00	35.56
tblGrading	AcresOfGrading	75.00	1.50
tblGrading	AcresOfGrading	9.38	1.50
tblGrading	MaterialExported	0.00	20,000.00
tblLandUse	LandUseSquareFeet	0.00	50,983.00
tblLandUse	LandUseSquareFeet	116,000.00	111,415.00
tblLandUse	LandUseSquareFeet	326,700.00	253,900.00
tblLandUse	LotAcreage	0.07	0.25
tblLandUse	LotAcreage	2.61	0.50
tblLandUse	LotAcreage	7.50	0.50
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.00	200.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	730.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	2.00
tblStationaryBoilersUse	DailyHeatInput	0.00	2.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	3.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	670.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	500.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblVehicleTrips	CC_TL	6.60	15.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CC_TL	6.60	15.00
tblVehicleTrips	CC_TTP	0.00	61.60
tblVehicleTrips	CNW_TL	6.60	15.00
tblVehicleTrips	CNW_TL	6.60	15.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	19.40
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	8.19	3.00
tblVehicleTrips	ST_TR	0.00	11.50
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	5.95	3.00
tblVehicleTrips	SU_TR	0.00	11.50
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	8.36	3.00
tblVehicleTrips	WD_TR	0.00	11.50
tblWater	IndoorWaterUseRate	0.00	23,319,531.00

2.0 Emissions Summary

Jamul Casino Hotel and Event Center Project - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0105	0.1007	0.0867	1.6000e-004	1.9400e-003	5.0400e-003	6.9800e-003	4.1000e-004	4.7100e-003	5.1200e-003	0.0000	13.6971	13.6971	3.2600e-003	6.0000e-005	13.7971
2023	0.2548	2.0602	2.1346	5.9500e-003	0.4862	0.0762	0.5625	0.2012	0.0722	0.2734	0.0000	534.0038	534.0038	0.0636	0.0252	543.0875
2024	0.9199	1.1358	1.5245	4.2100e-003	0.2086	0.0386	0.2472	0.0562	0.0373	0.0934	0.0000	376.1650	376.1650	0.0295	0.0170	381.9638
Maximum	0.9199	2.0602	2.1346	5.9500e-003	0.4862	0.0762	0.5625	0.2012	0.0722	0.2734	0.0000	534.0038	534.0038	0.0636	0.0252	543.0875

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	0.0105	0.1007	0.0867	1.6000e-004	1.4500e-003	5.0400e-003	6.4900e-003	3.4000e-004	4.7100e-003	5.0500e-003	0.0000	13.6971	13.6971	3.2600e-003	6.0000e-005	13.7971
2023	0.2548	2.0602	2.1346	5.9500e-003	0.3455	0.0762	0.4218	0.1247	0.0722	0.1969	0.0000	534.0035	534.0035	0.0636	0.0252	543.0872
2024	0.9199	1.1358	1.5245	4.2100e-003	0.2086	0.0386	0.2472	0.0562	0.0373	0.0934	0.0000	376.1649	376.1649	0.0295	0.0170	381.9636
Maximum	0.9199	2.0602	2.1346	5.9500e-003	0.3455	0.0762	0.4218	0.1247	0.0722	0.1969	0.0000	534.0035	534.0035	0.0636	0.0252	543.0872

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Percent Reduction	0.00	0.00	0.00	0.00	20.26	0.00	17.29	29.70	0.00	20.59	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	12-15-2022	3-14-2023	0.5606	0.5606
2	3-15-2023	6-14-2023	0.5886	0.5886
3	6-15-2023	9-14-2023	0.6133	0.6133
4	9-15-2023	12-14-2023	0.5613	0.5613
5	12-15-2023	3-14-2024	0.5399	0.5399
6	3-15-2024	6-14-2024	0.9320	0.9320
7	6-15-2024	9-14-2024	0.6787	0.6787
		Highest	0.9320	0.9320

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.2854	5.0000e-005	5.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
Energy	0.1274	1.1585	0.9731	6.9500e-003		0.0880	0.0880		0.0880	0.0880	0.0000	2,569.4815	2,569.4815	0.1041	0.0328	2,581.8629
Mobile	0.5321	0.5393	4.4840	8.7800e-003	0.9274	7.0500e-003	0.9344	0.2475	6.5700e-003	0.2541	0.0000	811.8995	811.8995	0.0653	0.0403	825.5462
Stationary	0.5557	1.5486	1.5070	3.2900e-003		0.0890	0.0890		0.0890	0.0890	0.0000	372.0029	372.0029	0.0380	0.0000	372.9531
Waste						0.0000	0.0000		0.0000	0.0000	66.1710	0.0000	66.1710	3.9106	0.0000	163.9358
Water						0.0000	0.0000		0.0000	0.0000	9.3781	96.8898	106.2680	0.9691	0.0235	137.4880
Total	2.5005	3.2465	6.9693	0.0190	0.9274	0.1841	1.1115	0.2475	0.1837	0.4312	75.5491	3,850.2838	3,925.8329	5.0872	0.0966	4,081.7969

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

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	1.2854	5.0000e-005	5.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
Energy	0.1274	1.1585	0.9731	6.9500e-003		0.0880	0.0880		0.0880	0.0880	0.0000	2,503.0711	2,503.0711	0.1001	0.0323	2,515.2045
Mobile	0.5321	0.5393	4.4840	8.7800e-003	0.9274	7.0500e-003	0.9344	0.2475	6.5700e-003	0.2541	0.0000	811.8995	811.8995	0.0653	0.0403	825.5462
Stationary	0.5557	1.5486	1.5070	3.2900e-003		0.0890	0.0890		0.0890	0.0890	0.0000	372.0029	372.0029	0.0380	0.0000	372.9531
Waste						0.0000	0.0000		0.0000	0.0000	33.0855	0.0000	33.0855	1.9553	0.0000	81.9679
Water						0.0000	0.0000		0.0000	0.0000	7.5025	78.0349	85.5374	0.7754	0.0188	110.5154
Total	2.5005	3.2465	6.9693	0.0190	0.9274	0.1841	1.1115	0.2475	0.1837	0.4312	40.5880	3,765.0185	3,805.6064	2.9341	0.0914	3,906.1979

	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	46.28	2.21	3.06	42.32	5.36	4.30

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	12/15/2022	1/11/2023	5	20	
2	Site Preparation	Site Preparation	1/12/2023	1/25/2023	5	10	

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3	Grading	Grading	1/26/2023	5/10/2023	5	75
4	Building Construction	Building Construction	5/11/2023	7/31/2024	5	320
5	Paving	Paving	8/1/2023	8/21/2023	5	15
6	Architectural Coating	Architectural Coating	5/1/2024	7/30/2024	5	65

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 461,825; Non-Residential Outdoor: 153,942; Striped Parking Area: 6,685 (Architectural Coating – sqft)

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42

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Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	5	13.00	0.00	14.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,500.00	16.80	6.60	10.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	171.00	69.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.0000e-004	0.0000	9.0000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0101	0.0997	0.0838	1.4000e-004		5.0300e-003	5.0300e-003		4.7000e-003	4.7000e-003	0.0000	12.6466	12.6466	3.2200e-003	0.0000	12.7272
Total	0.0101	0.0997	0.0838	1.4000e-004	9.0000e-004	5.0300e-003	5.9300e-003	1.4000e-004	4.7000e-003	4.8400e-003	0.0000	12.6466	12.6466	3.2200e-003	0.0000	12.7272

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	2.0000e-005	7.1000e-004	1.7000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2633	0.2633	1.0000e-005	4.0000e-005	0.2760
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	3.0000e-004	2.3000e-004	2.7500e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.8000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7873	0.7873	2.0000e-005	2.0000e-005	0.7939
Total	3.2000e-004	9.4000e-004	2.9200e-003	1.0000e-005	1.0400e-003	2.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0505	1.0505	3.0000e-005	6.0000e-005	1.0699

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3.2 Demolition -2022

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					4.0000e-004	0.0000	4.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0101	0.0997	0.0838	1.4000e-004		5.0300e-003	5.0300e-003		4.7000e-003	4.7000e-003	0.0000	12.6466	12.6466	3.2200e-003	0.0000	12.7272
Total	0.0101	0.0997	0.0838	1.4000e-004	4.0000e-004	5.0300e-003	5.4300e-003	6.0000e-005	4.7000e-003	4.7600e-003	0.0000	12.6466	12.6466	3.2200e-003	0.0000	12.7272

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	2.0000e-005	7.1000e-004	1.7000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2633	0.2633	1.0000e-005	4.0000e-005	0.2760
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	3.0000e-004	2.3000e-004	2.7500e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.8000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7873	0.7873	2.0000e-005	2.0000e-005	0.7939
Total	3.2000e-004	9.4000e-004	2.9200e-003	1.0000e-005	1.0400e-003	2.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0505	1.0505	3.0000e-005	6.0000e-005	1.0699

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3.2 Demolition -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					
Fugitive Dust					6.0000e-004	0.0000	6.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8900e-003	0.0573	0.0538	1.0000e-004		2.7100e-003	2.7100e-003		2.5300e-003	2.5300e-003	0.0000	8.4346	8.4346	2.1400e-003	0.0000	8.4881
Total	5.8900e-003	0.0573	0.0538	1.0000e-004	6.0000e-004	2.7100e-003	3.3100e-003	9.0000e-005	2.5300e-003	2.6200e-003	0.0000	8.4346	8.4346	2.1400e-003	0.0000	8.4881

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	1.0000e-005	3.8000e-004	1.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1680	0.1680	1.0000e-005	3.0000e-005	0.1762
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	1.8000e-004	1.4000e-004	1.6900e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5083	0.5083	1.0000e-005	1.0000e-005	0.5123
Total	1.9000e-004	5.2000e-004	1.7900e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	2.0000e-004	0.0000	0.6763	0.6763	2.0000e-005	4.0000e-005	0.6886

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3.2 Demolition -2023

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					2.7000e-004	0.0000	2.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8900e-003	0.0573	0.0538	1.0000e-004		2.7100e-003	2.7100e-003		2.5300e-003	2.5300e-003	0.0000	8.4346	8.4346	2.1400e-003	0.0000	8.4881
Total	5.8900e-003	0.0573	0.0538	1.0000e-004	2.7000e-004	2.7100e-003	2.9800e-003	4.0000e-005	2.5300e-003	2.5700e-003	0.0000	8.4346	8.4346	2.1400e-003	0.0000	8.4881

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	1.0000e-005	3.8000e-004	1.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1680	0.1680	1.0000e-005	3.0000e-005	0.1762
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	1.8000e-004	1.4000e-004	1.6900e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5083	0.5083	1.0000e-005	1.0000e-005	0.5123
Total	1.9000e-004	5.2000e-004	1.7900e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	2.0000e-004	0.0000	0.6763	0.6763	2.0000e-005	4.0000e-005	0.6886

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3.3 Site Preparation -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					
Fugitive Dust					0.0271	0.0000	0.0271	0.0146	0.0000	0.0146	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6700e-003	0.0621	0.0332	9.0000e-005		2.5400e-003	2.5400e-003		2.3300e-003	2.3300e-003	0.0000	7.5571	7.5571	2.4400e-003	0.0000	7.6182
Total	5.6700e-003	0.0621	0.0332	9.0000e-005	0.0271	2.5400e-003	0.0297	0.0146	2.3300e-003	0.0169	0.0000	7.5571	7.5571	2.4400e-003	0.0000	7.6182

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	1.4000e-004	1.1000e-004	1.3000e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3910	0.3910	1.0000e-005	1.0000e-005	0.3941
Total	1.4000e-004	1.1000e-004	1.3000e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3910	0.3910	1.0000e-005	1.0000e-005	0.3941

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3.3 Site Preparation -2023

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					0.0122	0.0000	0.0122	6.5600e-003	0.0000	6.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6700e-003	0.0621	0.0332	9.0000e-005		2.5400e-003	2.5400e-003		2.3300e-003	2.3300e-003	0.0000	7.5571	7.5571	2.4400e-003	0.0000	7.6182
Total	5.6700e-003	0.0621	0.0332	9.0000e-005	0.0122	2.5400e-003	0.0148	6.5600e-003	2.3300e-003	8.8900e-003	0.0000	7.5571	7.5571	2.4400e-003	0.0000	7.6182

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	1.4000e-004	1.1000e-004	1.3000e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3910	0.3910	1.0000e-005	1.0000e-005	0.3941
Total	1.4000e-004	1.1000e-004	1.3000e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3910	0.3910	1.0000e-005	1.0000e-005	0.3941

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3.4 Grading -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					
Fugitive Dust					0.2280	0.0000	0.2280	0.1244	0.0000	0.1244	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0500	0.5425	0.3264	7.7000e-004		0.0227	0.0227		0.0209	0.0209	0.0000	67.8897	67.8897	0.0220	0.0000	68.4386
Total	0.0500	0.5425	0.3264	7.7000e-004	0.2280	0.0227	0.2507	0.1244	0.0209	0.1453	0.0000	67.8897	67.8897	0.0220	0.0000	68.4386

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	2.0000e-003	0.0964	0.0318	3.9000e-004	0.0107	7.0000e-004	0.0114	2.9500e-003	6.7000e-004	3.6200e-003	0.0000	39.0864	39.0864	1.9300e-003	6.2100e-003	40.9867
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	1.3300e-003	9.9000e-004	0.0122	4.0000e-005	4.6800e-003	2.0000e-005	4.7000e-003	1.2400e-003	2.0000e-005	1.2600e-003	0.0000	3.6652	3.6652	9.0000e-005	9.0000e-005	3.6947
Total	3.3300e-003	0.0974	0.0440	4.3000e-004	0.0154	7.2000e-004	0.0161	4.1900e-003	6.9000e-004	4.8800e-003	0.0000	42.7516	42.7516	2.0200e-003	6.3000e-003	44.6814

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading -2023

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					0.1026	0.0000	0.1026	0.0560	0.0000	0.0560	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0500	0.5425	0.3264	7.7000e-004		0.0227	0.0227		0.0209	0.0209	0.0000	67.8896	67.8896	0.0220	0.0000	68.4385
Total	0.0500	0.5425	0.3264	7.7000e-004	0.1026	0.0227	0.1253	0.0560	0.0209	0.0768	0.0000	67.8896	67.8896	0.0220	0.0000	68.4385

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	2.0000e-003	0.0964	0.0318	3.9000e-004	0.0107	7.0000e-004	0.0114	2.9500e-003	6.7000e-004	3.6200e-003	0.0000	39.0864	39.0864	1.9300e-003	6.2100e-003	40.9867
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	1.3300e-003	9.9000e-004	0.0122	4.0000e-005	4.6800e-003	2.0000e-005	4.7000e-003	1.2400e-003	2.0000e-005	1.2600e-003	0.0000	3.6652	3.6652	9.0000e-005	9.0000e-005	3.6947
Total	3.3300e-003	0.0974	0.0440	4.3000e-004	0.0154	7.2000e-004	0.0161	4.1900e-003	6.9000e-004	4.8800e-003	0.0000	42.7516	42.7516	2.0200e-003	6.3000e-003	44.6814

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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	0.1272	0.9778	1.0530	1.8400e-003		0.0430	0.0430		0.0415	0.0415	0.0000	151.6353	151.6353	0.0258	0.0000	152.2790
Total	0.1272	0.9778	1.0530	1.8400e-003		0.0430	0.0430		0.0415	0.0415	0.0000	151.6353	151.6353	0.0258	0.0000	152.2790

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	6.4500e-003	0.2378	0.0867	1.0800e-003	0.0346	1.3700e-003	0.0360	9.9900e-003	1.3100e-003	0.0113	0.0000	105.3283	105.3283	3.1900e-003	0.0153	109.9595
Worker	0.0507	0.0376	0.4651	1.5200e-003	0.1780	9.4000e-004	0.1790	0.0473	8.7000e-004	0.0482	0.0000	139.5577	139.5577	3.2600e-003	3.4900e-003	140.6801
Total	0.0572	0.2754	0.5518	2.6000e-003	0.2126	2.3100e-003	0.2150	0.0573	2.1800e-003	0.0595	0.0000	244.8859	244.8859	6.4500e-003	0.0188	250.6396

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction -2023

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	0.1272	0.9778	1.0530	1.8400e-003		0.0430	0.0430		0.0415	0.0415	0.0000	151.6351	151.6351	0.0258	0.0000	152.2788
Total	0.1272	0.9778	1.0530	1.8400e-003		0.0430	0.0430		0.0415	0.0415	0.0000	151.6351	151.6351	0.0258	0.0000	152.2788

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	6.4500e-003	0.2378	0.0867	1.0800e-003	0.0346	1.3700e-003	0.0360	9.9900e-003	1.3100e-003	0.0113	0.0000	105.3283	105.3283	3.1900e-003	0.0153	109.9595
Worker	0.0507	0.0376	0.4651	1.5200e-003	0.1780	9.4000e-004	0.1790	0.0473	8.7000e-004	0.0482	0.0000	139.5577	139.5577	3.2600e-003	3.4900e-003	140.6801
Total	0.0572	0.2754	0.5518	2.6000e-003	0.2126	2.3100e-003	0.2150	0.0573	2.1800e-003	0.0595	0.0000	244.8859	244.8859	6.4500e-003	0.0188	250.6396

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction -2024

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	0.1086	0.8464	0.9576	1.6900e-003		0.0345	0.0345		0.0333	0.0333	0.0000	138.9326	138.9326	0.0231	0.0000	139.5111
Total	0.1086	0.8464	0.9576	1.6900e-003		0.0345	0.0345		0.0333	0.0333	0.0000	138.9326	138.9326	0.0231	0.0000	139.5111

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	5.7000e-003	0.2163	0.0776	9.7000e-004	0.0317	1.2600e-003	0.0330	9.1600e-003	1.2000e-003	0.0104	0.0000	94.8175	94.8175	2.9900e-003	0.0138	98.9890
Worker	0.0437	0.0309	0.3970	1.3500e-003	0.1631	8.2000e-004	0.1639	0.0433	7.6000e-004	0.0441	0.0000	123.6704	123.6704	2.7100e-003	2.9800e-003	124.6267
Total	0.0494	0.2472	0.4746	2.3200e-003	0.1948	2.0800e-003	0.1969	0.0525	1.9600e-003	0.0545	0.0000	218.4879	218.4879	5.7000e-003	0.0167	223.6157

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3.5 Building Construction -2024

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	0.1086	0.8464	0.9576	1.6900e-003		0.0345	0.0345		0.0333	0.0333	0.0000	138.9325	138.9325	0.0231	0.0000	139.5109
Total	0.1086	0.8464	0.9576	1.6900e-003		0.0345	0.0345		0.0333	0.0333	0.0000	138.9325	138.9325	0.0231	0.0000	139.5109

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	5.7000e-003	0.2163	0.0776	9.7000e-004	0.0317	1.2600e-003	0.0330	9.1600e-003	1.2000e-003	0.0104	0.0000	94.8175	94.8175	2.9900e-003	0.0138	98.9890
Worker	0.0437	0.0309	0.3970	1.3500e-003	0.1631	8.2000e-004	0.1639	0.0433	7.6000e-004	0.0441	0.0000	123.6704	123.6704	2.7100e-003	2.9800e-003	124.6267
Total	0.0494	0.2472	0.4746	2.3200e-003	0.1948	2.0800e-003	0.1969	0.0525	1.9600e-003	0.0545	0.0000	218.4879	218.4879	5.7000e-003	0.0167	223.6157

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3.6 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	4.8300e-003	0.0468	0.0660	1.0000e-004		2.3100e-003	2.3100e-003		2.1300e-003	2.1300e-003	0.0000	8.8293	8.8293	2.8000e-003	0.0000	8.8993
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.8300e-003	0.0468	0.0660	1.0000e-004		2.3100e-003	2.3100e-003		2.1300e-003	2.1300e-003	0.0000	8.8293	8.8293	2.8000e-003	0.0000	8.8993

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	3.5000e-004	2.6000e-004	3.1800e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9530	0.9530	2.0000e-005	2.0000e-005	0.9606
Total	3.5000e-004	2.6000e-004	3.1800e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9530	0.9530	2.0000e-005	2.0000e-005	0.9606

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3.6 Paving -2023

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	4.8300e-003	0.0468	0.0660	1.0000e-004		2.3100e-003	2.3100e-003		2.1300e-003	2.1300e-003	0.0000	8.8293	8.8293	2.8000e-003	0.0000	8.8993
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.8300e-003	0.0468	0.0660	1.0000e-004		2.3100e-003	2.3100e-003		2.1300e-003	2.1300e-003	0.0000	8.8293	8.8293	2.8000e-003	0.0000	8.8993

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	3.5000e-004	2.6000e-004	3.1800e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9530	0.9530	2.0000e-005	2.0000e-005	0.9606
Total	3.5000e-004	2.6000e-004	3.1800e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9530	0.9530	2.0000e-005	2.0000e-005	0.9606

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating -2024

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	0.7523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8700e-003	0.0396	0.0588	1.0000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	8.2981	8.2981	4.7000e-004	0.0000	8.3098
Total	0.7581	0.0396	0.0588	1.0000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	8.2981	8.2981	4.7000e-004	0.0000	8.3098

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	3.6900e-003	2.6100e-003	0.0335	1.1000e-004	0.0138	7.0000e-005	0.0139	3.6600e-003	6.0000e-005	3.7200e-003	0.0000	10.4465	10.4465	2.3000e-004	2.5000e-004	10.5273
Total	3.6900e-003	2.6100e-003	0.0335	1.1000e-004	0.0138	7.0000e-005	0.0139	3.6600e-003	6.0000e-005	3.7200e-003	0.0000	10.4465	10.4465	2.3000e-004	2.5000e-004	10.5273

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3.7 Architectural Coating -2024

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	0.7523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8700e-003	0.0396	0.0588	1.0000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	8.2981	8.2981	4.7000e-004	0.0000	8.3098
Total	0.7581	0.0396	0.0588	1.0000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	8.2981	8.2981	4.7000e-004	0.0000	8.3098

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	3.6900e-003	2.6100e-003	0.0335	1.1000e-004	0.0138	7.0000e-005	0.0139	3.6600e-003	6.0000e-005	3.7200e-003	0.0000	10.4465	10.4465	2.3000e-004	2.5000e-004	10.5273
Total	3.6900e-003	2.6100e-003	0.0335	1.1000e-004	0.0138	7.0000e-005	0.0139	3.6600e-003	6.0000e-005	3.7200e-003	0.0000	10.4465	10.4465	2.3000e-004	2.5000e-004	10.5273

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.5321	0.5393	4.4840	8.7800e-003	0.9274	7.0500e-003	0.9344	0.2475	6.5700e-003	0.2541	0.0000	811.8995	811.8995	0.0653	0.0403	825.5462
Unmitigated	0.5321	0.5393	4.4840	8.7800e-003	0.9274	7.0500e-003	0.9344	0.2475	6.5700e-003	0.2541	0.0000	811.8995	811.8995	0.0653	0.0403	825.5462

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Hotel	675.00	675.00	675.00	2,479,043	2,479,043
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	586.50	586.50	586.50		
Total	1,261.50	1,261.50	1,261.50	2,479,043	2,479,043

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
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Hotel	14.70	15.00	15.00	19.40	61.60	19.00	58	38	4
Unenclosed Parking with Elevator	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
User Defined Commercial	14.70	15.00	15.00	19.40	61.60	19.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
Hotel	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
Unenclosed Parking with Elevator	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
User Defined Commercial	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,241.9263	1,241.9263	0.0759	9.2000e-003	1,246.5653
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,308.3367	1,308.3367	0.0800	9.6900e-003	1,313.2237
NaturalGas Mitigated	0.1274	1.1585	0.9731	6.9500e-003		0.0880	0.0880		0.0880	0.0880	0.0000	1,261.1448	1,261.1448	0.0242	0.0231	1,268.6392
NaturalGas Unmitigated	0.1274	1.1585	0.9731	6.9500e-003		0.0880	0.0880		0.0880	0.0880	0.0000	1,261.1448	1,261.1448	0.0242	0.0231	1,268.6392

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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					
General Office Building	60090	3.2000e-004	2.9500e-003	2.4700e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.2066	3.2066	6.0000e-005	6.0000e-005	3.2257
Hotel	1.47008e+007	0.0793	0.7206	0.6053	4.3200e-003		0.0548	0.0548		0.0548	0.0548	0.0000	784.4912	784.4912	0.0150	0.0144	789.1530
Unenclosed Parking with Elevator	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
User Defined Commercial	8.87206e+006	0.0478	0.4349	0.3653	2.6100e-003		0.0331	0.0331		0.0331	0.0331	0.0000	473.4470	473.4470	9.0700e-003	8.6800e-003	476.2605
Total		0.1274	1.1585	0.9731	6.9500e-003		0.0880	0.0880		0.0880	0.0880	0.0000	1,261.1448	1,261.1448	0.0242	0.0231	1,268.6392

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5.2 Energy by Land Use - NaturalGas

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					
General Office Building	60090	3.2000e-004	2.9500e-003	2.4700e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.2066	3.2066	6.0000e-005	6.0000e-005	3.2257
Hotel	1.47008e+007	0.0793	0.7206	0.6053	4.3200e-003		0.0548	0.0548		0.0548	0.0548	0.0000	784.4912	784.4912	0.0150	0.0144	789.1530
Unenclosed Parking with Elevator	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
User Defined Commercial	8.87206e+006	0.0478	0.4349	0.3653	2.6100e-003		0.0331	0.0331		0.0331	0.0331	0.0000	473.4470	473.4470	9.0700e-003	8.6800e-003	476.2605
Total		0.1274	1.1585	0.9731	6.9500e-003		0.0880	0.0880		0.0880	0.0880	0.0000	1,261.1448	1,261.1448	0.0242	0.0231	1,268.6392

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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			
General Office Building	38820	9.5082	5.8000e-004	7.0000e-005	9.5437
Hotel	3.15852e+006	773.6179	0.0473	5.7300e-003	776.5076
Unenclosed Parking with Elevator	216145	52.9406	3.2400e-003	3.9000e-004	53.1383
User Defined Commercial	1.92818e+006	472.2700	0.0289	3.5000e-003	474.0341
Total		1,308.3367	0.0800	9.6900e-003	1,313.2237

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	36991.2	9.0603	5.5000e-004	7.0000e-005	9.0941
Hotel	2.97571e+006	728.8426	0.0445	5.4000e-003	731.5650
Unenclosed Parking with Elevator	184949	45.2997	2.7700e-003	3.4000e-004	45.4689
User Defined Commercial	1.87287e+006	458.7237	0.0280	3.4000e-003	460.4372
Total		1,241.9263	0.0759	9.2100e-003	1,246.5653

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Mitigated	1.2854	5.0000e-005	5.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
Unmitigated	1.2854	5.0000e-005	5.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108

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	0.0752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2096					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8000e-004	5.0000e-005	5.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
Total	1.2854	5.0000e-005	5.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108

Jamul Casino Hotel and Event Center Project - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

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	0.0752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2096					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8000e-004	5.0000e-005	5.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
Total	1.2854	5.0000e-005	5.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	85.5374	0.7754	0.0188	110.5154
Unmitigated	106.2680	0.9691	0.0235	137.4880

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.533201 / 0.326801	2.7590	0.0175	4.3000e-004	3.3252
Hotel	5.70752 / 0.634169	21.7391	0.1872	4.5400e-003	27.7717
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	23.3195 / 0	81.7699	0.7644	0.0185	106.3911
Total		106.2680	0.9691	0.0235	137.4880

Jamul Casino Hotel and Event Center Project - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.426561 / 0.326801	2.3850	0.0140	3.4000e-004	2.8387
Hotel	4.56602 / 0.634169	17.7364	0.1498	3.6300e-003	22.5638
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	18.6556 / 0	65.4159	0.6115	0.0148	85.1129
Total		85.5374	0.7754	0.0188	110.5154

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Jamul Casino Hotel and Event Center Project - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	33.0855	1.9553	0.0000	81.9679
Unmitigated	66.1710	3.9106	0.0000	163.9358

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	2.79	0.5663	0.0335	0.0000	1.4031
Hotel	123.19	25.0065	1.4778	0.0000	61.9524
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	200	40.5982	2.3993	0.0000	100.5803
Total		66.1710	3.9106	0.0000	163.9358

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1.395	0.2832	0.0167	0.0000	0.7016
Hotel	61.595	12.5032	0.7389	0.0000	30.9762
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	100	20.2991	1.1996	0.0000	50.2902
Total		33.0855	1.9553	0.0000	81.9679

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
Emergency Generator	2	0	500	670	0.73	Diesel

Boilers

Jamul Casino Hotel and Event Center Project - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	2	730	2	CNG

User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (2 - 5 MMBTU)	5.9000e-003	0.0121	0.1052	6.4000e-004		8.1600e-003	8.1600e-003		8.1600e-003	8.1600e-003	0.0000	116.8687	116.8687	2.2400e-003	0.0000	116.9247
Emergency Generator - Diesel (600 -750 HP)	0.5498	1.5366	1.4018	2.6400e-003		0.0809	0.0809		0.0809	0.0809	0.0000	255.1341	255.1341	0.0358	0.0000	256.0284
Total	0.5557	1.5486	1.5070	3.2800e-003		0.0890	0.0890		0.0890	0.0890	0.0000	372.0029	372.0029	0.0380	0.0000	372.9531

11.0 Vegetation

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Jamul Casino Hotel and Event Center Project

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.00	1000sqft	0.25	3,000.00	0
User Defined Commercial	51.00	User Defined Unit	0.00	50,983.00	0
Unenclosed Parking with Elevator	290.00	Space	0.50	111,415.00	0
Hotel	225.00	Room	0.50	253,900.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Trips and VMT - Export of fill to Chula Vista.

Demolition -

Grading - See input tables for assumptions.

Architectural Coating - Compliance with San Diego APCD Rule 67.0.1

Vehicle Trips - See input tables for assumptions.

Area Coating - Compliance with San Diego APCD Rule 67.0.1

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - See input tables for assumptions.

Water And Wastewater - See input tables for assumptions.

Solid Waste - See input tables for assumptions.

Construction Off-road Equipment Mitigation - See input tables for assumptions.

Area Mitigation - San Diego APCD Rule 67.0.1

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	4.00	75.00
tblConstructionPhase	NumDays	200.00	320.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	PhaseEndDate	1/13/2023	1/25/2023
tblConstructionPhase	PhaseEndDate	1/19/2023	5/10/2023
tblConstructionPhase	PhaseEndDate	10/26/2023	7/31/2024
tblConstructionPhase	PhaseEndDate	11/9/2023	8/21/2023
tblConstructionPhase	PhaseEndDate	11/23/2023	7/30/2024

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	PhaseStartDate	1/14/2023	1/26/2023
tblConstructionPhase	PhaseStartDate	1/20/2023	5/11/2023
tblConstructionPhase	PhaseStartDate	10/27/2023	8/1/2023
tblConstructionPhase	PhaseStartDate	11/10/2023	5/1/2024
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24NG	0.00	138.46
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24NG	0.00	35.56
tblGrading	AcresOfGrading	75.00	1.50
tblGrading	AcresOfGrading	9.38	1.50
tblGrading	MaterialExported	0.00	20,000.00
tblLandUse	LandUseSquareFeet	0.00	50,983.00
tblLandUse	LandUseSquareFeet	116,000.00	111,415.00
tblLandUse	LandUseSquareFeet	326,700.00	253,900.00
tblLandUse	LotAcreage	0.07	0.25
tblLandUse	LotAcreage	2.61	0.50
tblLandUse	LotAcreage	7.50	0.50
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.00	200.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	730.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	2.00
tblStationaryBoilersUse	DailyHeatInput	0.00	2.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	3.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	670.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	500.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblVehicleTrips	CC_TL	6.60	15.00

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CC_TL	6.60	15.00
tblVehicleTrips	CC_TTP	0.00	61.60
tblVehicleTrips	CNW_TL	6.60	15.00
tblVehicleTrips	CNW_TL	6.60	15.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	19.40
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	8.19	3.00
tblVehicleTrips	ST_TR	0.00	11.50
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	5.95	3.00
tblVehicleTrips	SU_TR	0.00	11.50
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	8.36	3.00
tblVehicleTrips	WD_TR	0.00	11.50
tblWater	IndoorWaterUseRate	0.00	23,319,531.00

2.0 Emissions Summary

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.7412	16.7703	14.4794	0.0261	0.3278	0.8399	1.1677	0.0700	0.7848	0.8548	0.0000	2,523.5548	2,523.5548	0.5980	0.0112	2,541.8490
2023	2.8977	21.1358	28.8644	0.0691	6.5004	0.8514	7.1241	3.4321	0.8082	4.0066	0.0000	6,769.1296	6,769.1296	0.8389	0.2479	6,863.9616
2024	25.5048	15.4528	21.9927	0.0598	3.0412	0.5408	3.5819	0.8161	0.5233	1.3393	0.0000	5,890.0343	5,890.0343	0.4383	0.2461	5,974.3314
Maximum	25.5048	21.1358	28.8644	0.0691	6.5004	0.8514	7.1241	3.4321	0.8082	4.0066	0.0000	6,769.1296	6,769.1296	0.8389	0.2479	6,863.9616

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	1.7412	16.7703	14.4794	0.0261	0.2456	0.8399	1.0855	0.0576	0.7848	0.8423	0.0000	2,523.5548	2,523.5548	0.5980	0.0112	2,541.8490
2023	2.8977	21.1358	28.8644	0.0691	3.1559	0.8514	3.7796	1.6071	0.8082	2.1816	0.0000	6,769.1296	6,769.1296	0.8389	0.2479	6,863.9616
2024	25.5048	15.4528	21.9927	0.0598	3.0412	0.5408	3.5819	0.8161	0.5233	1.3393	0.0000	5,890.0343	5,890.0343	0.4383	0.2461	5,974.3314
Maximum	25.5048	21.1358	28.8644	0.0691	3.1559	0.8514	3.7796	1.6071	0.8082	2.1816	0.0000	6,769.1296	6,769.1296	0.8389	0.2479	6,863.9616

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Percent Reduction	0.00	0.00	0.00	0.00	34.72	0.00	28.86	42.55	0.00	29.63	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	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Energy	0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593
Mobile	3.0803	2.7652	24.2025	0.0502	5.2187	0.0388	5.2574	1.3902	0.0362	1.4263		5,108.9625	5,108.9625	0.3774	0.2338	5,188.0567
Stationary	0.0324	0.0660	0.5765	3.5300e-003		0.0447	0.0447		0.0447	0.0447		705.8944	705.8944	0.0135		706.2327
Total	10.8566	9.1796	30.1692	0.0918	5.2187	0.5661	5.7848	1.3902	0.5635	1.9537		13,432.3744	13,432.3744	0.5373	0.3734	13,557.0813

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

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	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Energy	0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593
Mobile	3.0803	2.7652	24.2025	0.0502	5.2187	0.0388	5.2574	1.3902	0.0362	1.4263		5,108.9625	5,108.9625	0.3774	0.2338	5,188.0567
Stationary	0.0324	0.0660	0.5765	3.5300e-003		0.0447	0.0447		0.0447	0.0447		705.8944	705.8944	0.0135		706.2327
Total	10.8566	9.1796	30.1692	0.0918	5.2187	0.5661	5.7848	1.3902	0.5635	1.9537		13,432.3744	13,432.3744	0.5373	0.3734	13,557.0813

	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	12/15/2022	1/11/2023	5	20	
2	Site Preparation	Site Preparation	1/12/2023	1/25/2023	5	10	
3	Grading	Grading	1/26/2023	5/10/2023	5	75	
4	Building Construction	Building Construction	5/11/2023	7/31/2024	5	320	

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Paving	Paving	8/1/2023	8/21/2023	5	15
6	Architectural Coating	Architectural Coating	5/1/2024	7/30/2024	5	65

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 461,825; Non-Residential Outdoor: 153,942; Striped Parking Area: 6,685 (Architectural Coating – sqft)

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	5	13.00	0.00	14.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,500.00	16.80	6.60	10.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	171.00	69.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.1495	0.0000	0.1495	0.0226	0.0000	0.0226			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	0.1495	0.8379	0.9874	0.0226	0.7829	0.8055		2,323.4168	2,323.4168	0.5921		2,338.2191

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	3.1400e-003	0.1137	0.0276	4.4000e-004	0.0122	1.1000e-003	0.0133	3.3600e-003	1.0500e-003	4.4000e-003		48.3574	48.3574	2.3300e-003	7.6800e-003	50.7047
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	0.0491	0.0349	0.4913	1.5000e-003	0.1661	9.0000e-004	0.1670	0.0440	8.3000e-004	0.0449		151.7805	151.7805	3.5500e-003	3.5400e-003	152.9253
Total	0.0522	0.1486	0.5189	1.9400e-003	0.1783	2.0000e-003	0.1803	0.0474	1.8800e-003	0.0493		200.1379	200.1379	5.8800e-003	0.0112	203.6299

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition -2022

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					0.0673	0.0000	0.0673	0.0102	0.0000	0.0102			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	0.0673	0.8379	0.9052	0.0102	0.7829	0.7931	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191

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	3.1400e-003	0.1137	0.0276	4.4000e-004	0.0122	1.1000e-003	0.0133	3.3600e-003	1.0500e-003	4.4000e-003		48.3574	48.3574	2.3300e-003	7.6800e-003	50.7047
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	0.0491	0.0349	0.4913	1.5000e-003	0.1661	9.0000e-004	0.1670	0.0440	8.3000e-004	0.0449		151.7805	151.7805	3.5500e-003	3.5400e-003	152.9253
Total	0.0522	0.1486	0.5189	1.9400e-003	0.1783	2.0000e-003	0.1803	0.0474	1.8800e-003	0.0493		200.1379	200.1379	5.8800e-003	0.0112	203.6299

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition -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					
Fugitive Dust					0.1495	0.0000	0.1495	0.0226	0.0000	0.0226			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.1495	0.6766	0.8261	0.0226	0.6328	0.6554		2,324.3959	2,324.3959	0.5893		2,339.1278

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	1.5900e-003	0.0916	0.0252	4.2000e-004	0.0122	7.8000e-004	0.0130	3.3600e-003	7.4000e-004	4.1000e-003		46.2894	46.2894	2.3300e-003	7.3600e-003	48.5414
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	0.0460	0.0311	0.4541	1.4500e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		146.9631	146.9631	3.2100e-003	3.2900e-003	148.0224
Total	0.0476	0.1226	0.4793	1.8700e-003	0.1783	1.6400e-003	0.1799	0.0474	1.5300e-003	0.0489		193.2525	193.2525	5.5400e-003	0.0107	196.5638

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition -2023

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					0.0673	0.0000	0.0673	0.0102	0.0000	0.0102			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.0673	0.6766	0.7439	0.0102	0.6328	0.6430	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278

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	1.5900e-003	0.0916	0.0252	4.2000e-004	0.0122	7.8000e-004	0.0130	3.3600e-003	7.4000e-004	4.1000e-003		46.2894	46.2894	2.3300e-003	7.3600e-003	48.5414
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	0.0460	0.0311	0.4541	1.4500e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		146.9631	146.9631	3.2100e-003	3.2900e-003	148.0224
Total	0.0476	0.1226	0.4793	1.8700e-003	0.1783	1.6400e-003	0.1799	0.0474	1.5300e-003	0.0489		193.2525	193.2525	5.5400e-003	0.0107	196.5638

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation -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					
Fugitive Dust					5.4284	0.0000	5.4284	2.9136	0.0000	2.9136			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668		1,666.0573	1,666.0573	0.5388		1,679.5282
Total	1.1339	12.4250	6.6420	0.0172	5.4284	0.5074	5.9358	2.9136	0.4668	3.3804		1,666.0573	1,666.0573	0.5388		1,679.5282

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	0.0283	0.0191	0.2795	8.9000e-004	0.1022	5.3000e-004	0.1027	0.0271	4.9000e-004	0.0276		90.4389	90.4389	1.9800e-003	2.0200e-003	91.0907
Total	0.0283	0.0191	0.2795	8.9000e-004	0.1022	5.3000e-004	0.1027	0.0271	4.9000e-004	0.0276		90.4389	90.4389	1.9800e-003	2.0200e-003	91.0907

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation -2023

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					2.4428	0.0000	2.4428	1.3111	0.0000	1.3111			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282
Total	1.1339	12.4250	6.6420	0.0172	2.4428	0.5074	2.9502	1.3111	0.4668	1.7779	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282

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	0.0283	0.0191	0.2795	8.9000e-004	0.1022	5.3000e-004	0.1027	0.0271	4.9000e-004	0.0276		90.4389	90.4389	1.9800e-003	2.0200e-003	91.0907
Total	0.0283	0.0191	0.2795	8.9000e-004	0.1022	5.3000e-004	0.1027	0.0271	4.9000e-004	0.0276		90.4389	90.4389	1.9800e-003	2.0200e-003	91.0907

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading -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					
Fugitive Dust					6.0808	0.0000	6.0808	3.3182	0.0000	3.3182			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	6.0808	0.6044	6.6851	3.3182	0.5560	3.8742		1,995.6147	1,995.6147	0.6454		2,011.7503

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	0.0553	2.4794	0.8423	0.0104	0.2919	0.0187	0.3106	0.0800	0.0179	0.0979		1,148.0432	1,148.0432	0.0569	0.1825	1,203.8605
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	0.0354	0.0239	0.3493	1.1200e-003	0.1277	6.6000e-004	0.1284	0.0339	6.1000e-004	0.0345		113.0486	113.0486	2.4700e-003	2.5300e-003	113.8634
Total	0.0907	2.5033	1.1916	0.0115	0.4196	0.0194	0.4389	0.1139	0.0185	0.1324		1,261.0918	1,261.0918	0.0594	0.1851	1,317.7239

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading -2023

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					2.7364	0.0000	2.7364	1.4932	0.0000	1.4932			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	2.7364	0.6044	3.3407	1.4932	0.5560	2.0492	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503

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	0.0553	2.4794	0.8423	0.0104	0.2919	0.0187	0.3106	0.0800	0.0179	0.0979		1,148.0432	1,148.0432	0.0569	0.1825	1,203.8605
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	0.0354	0.0239	0.3493	1.1200e-003	0.1277	6.6000e-004	0.1284	0.0339	6.1000e-004	0.0345		113.0486	113.0486	2.4700e-003	2.5300e-003	113.8634
Total	0.0907	2.5033	1.1916	0.0115	0.4196	0.0194	0.4389	0.1139	0.0185	0.1324		1,261.0918	1,261.0918	0.0594	0.1851	1,317.7239

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

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	0.0788	2.7501	1.0236	0.0129	0.4227	0.0163	0.4390	0.1217	0.0156	0.1373		1,389.5604	1,389.5604	0.0422	0.2014	1,450.6170
Worker	0.6051	0.4086	5.9732	0.0191	2.1842	0.0113	2.1955	0.5792	0.0104	0.5896		1,933.1304	1,933.1304	0.0423	0.0432	1,947.0640
Total	0.6839	3.1587	6.9968	0.0320	2.6069	0.0276	2.6345	0.7009	0.0260	0.7269		3,322.6908	3,322.6908	0.0844	0.2446	3,397.6810

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction -2023

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

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	0.0788	2.7501	1.0236	0.0129	0.4227	0.0163	0.4390	0.1217	0.0156	0.1373		1,389.5604	1,389.5604	0.0422	0.2014	1,450.6170
Worker	0.6051	0.4086	5.9732	0.0191	2.1842	0.0113	2.1955	0.5792	0.0104	0.5896		1,933.1304	1,933.1304	0.0423	0.0432	1,947.0640
Total	0.6839	3.1587	6.9968	0.0320	2.6069	0.0276	2.6345	0.7009	0.0260	0.7269		3,322.6908	3,322.6908	0.0844	0.2446	3,397.6810

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction -2024

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	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563

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	0.0760	2.7313	1.0003	0.0126	0.4227	0.0164	0.4391	0.1217	0.0157	0.1374		1,365.3309	1,365.3309	0.0431	0.1978	1,425.3618
Worker	0.5688	0.3661	5.5597	0.0185	2.1842	0.0107	2.1949	0.5792	9.8800e-003	0.5891		1,869.6005	1,869.6005	0.0383	0.0403	1,882.5591
Total	0.6448	3.0974	6.5600	0.0311	2.6069	0.0272	2.6340	0.7009	0.0256	0.7265		3,234.9314	3,234.9314	0.0814	0.2381	3,307.9209

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction -2024

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	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563

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	0.0760	2.7313	1.0003	0.0126	0.4227	0.0164	0.4391	0.1217	0.0157	0.1374		1,365.3309	1,365.3309	0.0431	0.1978	1,425.3618
Worker	0.5688	0.3661	5.5597	0.0185	2.1842	0.0107	2.1949	0.5792	9.8800e-003	0.5891		1,869.6005	1,869.6005	0.0383	0.0403	1,882.5591
Total	0.6448	3.0974	6.5600	0.0311	2.6069	0.0272	2.6340	0.7009	0.0256	0.7265		3,234.9314	3,234.9314	0.0814	0.2381	3,307.9209

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725

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	0.0460	0.0311	0.4541	1.4500e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		146.9631	146.9631	3.2100e-003	3.2900e-003	148.0224
Total	0.0460	0.0311	0.4541	1.4500e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		146.9631	146.9631	3.2100e-003	3.2900e-003	148.0224

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving -2023

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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725

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	0.0460	0.0311	0.4541	1.4500e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		146.9631	146.9631	3.2100e-003	3.2900e-003	148.0224
Total	0.0460	0.0311	0.4541	1.4500e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		146.9631	146.9631	3.2100e-003	3.2900e-003	148.0224

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating -2024

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	23.1462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	23.3270	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1131	0.0728	1.1054	3.6800e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		371.7334	371.7334	7.6100e-003	8.0100e-003	374.3100
Total	0.1131	0.0728	1.1054	3.6800e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		371.7334	371.7334	7.6100e-003	8.0100e-003	374.3100

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating -2024

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	23.1462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	23.3270	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1131	0.0728	1.1054	3.6800e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		371.7334	371.7334	7.6100e-003	8.0100e-003	374.3100
Total	0.1131	0.0728	1.1054	3.6800e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		371.7334	371.7334	7.6100e-003	8.0100e-003	374.3100

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.0803	2.7652	24.2025	0.0502	5.2187	0.0388	5.2574	1.3902	0.0362	1.4263		5,108.9625	5,108.9625	0.3774	0.2338	5,188.0567
Unmitigated	3.0803	2.7652	24.2025	0.0502	5.2187	0.0388	5.2574	1.3902	0.0362	1.4263		5,108.9625	5,108.9625	0.3774	0.2338	5,188.0567

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Hotel	675.00	675.00	675.00	2,479,043	2,479,043
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	586.50	586.50	586.50		
Total	1,261.50	1,261.50	1,261.50	2,479,043	2,479,043

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
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Hotel	14.70	15.00	15.00	19.40	61.60	19.00	58	38	4
Unenclosed Parking with Elevator	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
User Defined Commercial	14.70	15.00	15.00	19.40	61.60	19.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
Hotel	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
Unenclosed Parking with Elevator	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
User Defined Commercial	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

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	0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593
NaturalGas Unmitigated	0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
General Office Building	164.63	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003		19.3683	19.3683	3.7000e-004	3.6000e-004	19.4834
Hotel	40276.2	0.4344	3.9487	3.3169	0.0237		0.3001	0.3001		0.3001	0.3001		4,738.3755	4,738.3755	0.0908	0.0869	4,766.5333
Unenclosed Parking with Elevator	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
User Defined Commercial	24307	0.2621	2.3830	2.0018	0.0143		0.1811	0.1811		0.1811	0.1811		2,859.6492	2,859.6492	0.0548	0.0524	2,876.6427
Total		0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

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					
General Office Building	0.16463	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003		19.3683	19.3683	3.7000e-004	3.6000e-004	19.4834
Hotel	40.2762	0.4344	3.9487	3.3169	0.0237		0.3001	0.3001		0.3001	0.3001		4,738.3755	4,738.3755	0.0908	0.0869	4,766.5333
Unenclosed Parking with Elevator	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
User Defined Commercial	24.307	0.2621	2.3830	2.0018	0.0143		0.1811	0.1811		0.1811	0.1811		2,859.6492	2,859.6492	0.0548	0.0524	2,876.6427
Total		0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Mitigated	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Unmitigated	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327

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	0.4122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.6282					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3600e-003	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Total	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

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	0.4122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.6282					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3600e-003	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Total	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Emergency Generator	2	0	500	670	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	2	730	2	CNG

User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (2 - 5 MMBTU)	0.0324	0.0660	0.5765	3.5300e-003		0.0447	0.0447		0.0447	0.0447		705.8944	705.8944	0.0135		706.2327
Emergency Generator - Diesel (600 -750 HP)	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	0.0324	0.0660	0.5765	3.5300e-003		0.0447	0.0447		0.0447	0.0447		705.8944	705.8944	0.0135		706.2327

Jamul Casino Hotel and Event Center Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Jamul Casino Hotel and Event Center Project
San Diego County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.00	1000sqft	0.25	3,000.00	0
User Defined Commercial	51.00	User Defined Unit	0.00	50,983.00	0
Unenclosed Parking with Elevator	290.00	Space	0.50	111,415.00	0
Hotel	225.00	Room	0.50	253,900.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Trips and VMT - Export of fill to Chula Vista.

Demolition -

Grading - See input tables for assumptions.

Architectural Coating - Compliance with San Diego APCD Rule 67.0.1

Vehicle Trips - See input tables for assumptions.

Area Coating - Compliance with San Diego APCD Rule 67.0.1

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - See input tables for assumptions.

Water And Wastewater - See input tables for assumptions.

Solid Waste - See input tables for assumptions.

Construction Off-road Equipment Mitigation - See input tables for assumptions.

Area Mitigation - San Diego APCD Rule 67.0.1

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	4.00	75.00
tblConstructionPhase	NumDays	200.00	320.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	PhaseEndDate	1/13/2023	1/25/2023
tblConstructionPhase	PhaseEndDate	1/19/2023	5/10/2023
tblConstructionPhase	PhaseEndDate	10/26/2023	7/31/2024
tblConstructionPhase	PhaseEndDate	11/9/2023	8/21/2023
tblConstructionPhase	PhaseEndDate	11/23/2023	7/30/2024

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	PhaseStartDate	1/14/2023	1/26/2023
tblConstructionPhase	PhaseStartDate	1/20/2023	5/11/2023
tblConstructionPhase	PhaseStartDate	10/27/2023	8/1/2023
tblConstructionPhase	PhaseStartDate	11/10/2023	5/1/2024
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24NG	0.00	138.46
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24NG	0.00	35.56
tblGrading	AcresOfGrading	75.00	1.50
tblGrading	AcresOfGrading	9.38	1.50
tblGrading	MaterialExported	0.00	20,000.00
tblLandUse	LandUseSquareFeet	0.00	50,983.00
tblLandUse	LandUseSquareFeet	116,000.00	111,415.00
tblLandUse	LandUseSquareFeet	326,700.00	253,900.00
tblLandUse	LotAcreage	0.07	0.25
tblLandUse	LotAcreage	2.61	0.50
tblLandUse	LotAcreage	7.50	0.50
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.00	200.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	730.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	2.00
tblStationaryBoilersUse	DailyHeatInput	0.00	2.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	3.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	670.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	500.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblVehicleTrips	CC_TL	6.60	15.00

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CC_TL	6.60	15.00
tblVehicleTrips	CC_TTP	0.00	61.60
tblVehicleTrips	CNW_TL	6.60	15.00
tblVehicleTrips	CNW_TL	6.60	15.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	19.40
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	8.19	3.00
tblVehicleTrips	ST_TR	0.00	11.50
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	5.95	3.00
tblVehicleTrips	SU_TR	0.00	11.50
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	8.36	3.00
tblVehicleTrips	WD_TR	0.00	11.50
tblWater	IndoorWaterUseRate	0.00	23,319,531.00

2.0 Emissions Summary

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.7466	16.7789	14.4435	0.0260	0.3278	0.8399	1.1677	0.0700	0.7848	0.8548	0.0000	2,515.1403	2,515.1403	0.5981	0.0115	2,533.5228
2023	2.9704	21.3072	28.4298	0.0679	6.5004	0.8515	7.1241	3.4321	0.8083	4.0067	0.0000	6,656.0205	6,656.0205	0.8403	0.2521	6,752.1403
2024	25.5835	15.6236	21.5486	0.0586	3.0412	0.5409	3.5820	0.8161	0.5233	1.3394	0.0000	5,768.2966	5,768.2966	0.4397	0.2504	5,853.9188
Maximum	25.5835	21.3072	28.4298	0.0679	6.5004	0.8515	7.1241	3.4321	0.8083	4.0067	0.0000	6,656.0205	6,656.0205	0.8403	0.2521	6,752.1403

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	1.7466	16.7789	14.4435	0.0260	0.2456	0.8399	1.0855	0.0576	0.7848	0.8424	0.0000	2,515.1403	2,515.1403	0.5981	0.0115	2,533.5228
2023	2.9704	21.3072	28.4298	0.0679	3.1559	0.8515	3.7797	1.6071	0.8083	2.1817	0.0000	6,656.0205	6,656.0205	0.8403	0.2521	6,752.1403
2024	25.5835	15.6236	21.5486	0.0586	3.0412	0.5409	3.5820	0.8161	0.5233	1.3394	0.0000	5,768.2965	5,768.2965	0.4397	0.2504	5,853.9188
Maximum	25.5835	21.3072	28.4298	0.0679	3.1559	0.8515	3.7797	1.6071	0.8083	2.1817	0.0000	6,656.0205	6,656.0205	0.8403	0.2521	6,752.1403

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Percent Reduction	0.00	0.00	0.00	0.00	34.72	0.00	28.86	42.55	0.00	29.63	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	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Energy	0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593
Mobile	2.9837	3.0021	25.2381	0.0480	5.2187	0.0388	5.2575	1.3902	0.0362	1.4263		4,890.7469	4,890.7469	0.4045	0.2471	4,974.4834
Stationary	0.0324	0.0660	0.5765	3.5300e-003		0.0447	0.0447		0.0447	0.0447		705.8944	705.8944	0.0135		706.2327
Total	10.7600	9.4165	31.2048	0.0896	5.2187	0.5662	5.7848	1.3902	0.5635	1.9537		13,214.1588	13,214.1588	0.5644	0.3867	13,343.5080

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

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	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Energy	0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593
Mobile	2.9837	3.0021	25.2381	0.0480	5.2187	0.0388	5.2575	1.3902	0.0362	1.4263		4,890.7469	4,890.7469	0.4045	0.2471	4,974.4834
Stationary	0.0324	0.0660	0.5765	3.5300e-003		0.0447	0.0447		0.0447	0.0447		705.8944	705.8944	0.0135		706.2327
Total	10.7600	9.4165	31.2048	0.0896	5.2187	0.5662	5.7848	1.3902	0.5635	1.9537		13,214.1588	13,214.1588	0.5644	0.3867	13,343.5080

	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	12/15/2022	1/11/2023	5	20	
2	Site Preparation	Site Preparation	1/12/2023	1/25/2023	5	10	
3	Grading	Grading	1/26/2023	5/10/2023	5	75	
4	Building Construction	Building Construction	5/11/2023	7/31/2024	5	320	

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Paving	Paving	8/1/2023	8/21/2023	5	15
6	Architectural Coating	Architectural Coating	5/1/2024	7/30/2024	5	65

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 461,825; Non-Residential Outdoor: 153,942; Striped Parking Area: 6,685 (Architectural Coating – sqft)

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	5	13.00	0.00	14.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,500.00	16.80	6.60	10.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	171.00	69.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.1495	0.0000	0.1495	0.0226	0.0000	0.0226			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	0.1495	0.8379	0.9874	0.0226	0.7829	0.8055		2,323.4168	2,323.4168	0.5921		2,338.2191

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	3.0600e-003	0.1180	0.0281	4.4000e-004	0.0122	1.1000e-003	0.0133	3.3600e-003	1.0500e-003	4.4100e-003		48.3779	48.3779	2.3200e-003	7.6900e-003	50.7261
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	0.0546	0.0392	0.4549	1.4200e-003	0.1661	9.0000e-004	0.1670	0.0440	8.3000e-004	0.0449		143.3456	143.3456	3.6700e-003	3.8300e-003	144.5776
Total	0.0576	0.1572	0.4830	1.8600e-003	0.1783	2.0000e-003	0.1803	0.0474	1.8800e-003	0.0493		191.7234	191.7234	5.9900e-003	0.0115	195.3037

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition -2022

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					0.0673	0.0000	0.0673	0.0102	0.0000	0.0102			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	0.0673	0.8379	0.9052	0.0102	0.7829	0.7931	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191

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	3.0600e-003	0.1180	0.0281	4.4000e-004	0.0122	1.1000e-003	0.0133	3.3600e-003	1.0500e-003	4.4100e-003		48.3779	48.3779	2.3200e-003	7.6900e-003	50.7261
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	0.0546	0.0392	0.4549	1.4200e-003	0.1661	9.0000e-004	0.1670	0.0440	8.3000e-004	0.0449		143.3456	143.3456	3.6700e-003	3.8300e-003	144.5776
Total	0.0576	0.1572	0.4830	1.8600e-003	0.1783	2.0000e-003	0.1803	0.0474	1.8800e-003	0.0493		191.7234	191.7234	5.9900e-003	0.0115	195.3037

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition -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					
Fugitive Dust					0.1495	0.0000	0.1495	0.0226	0.0000	0.0226			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.1495	0.6766	0.8261	0.0226	0.6328	0.6554		2,324.3959	2,324.3959	0.5893		2,339.1278

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	1.4900e-003	0.0953	0.0255	4.2000e-004	0.0122	7.8000e-004	0.0130	3.3600e-003	7.4000e-004	4.1000e-003		46.3344	46.3344	2.3300e-003	7.3700e-003	48.5884
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	0.0513	0.0349	0.4211	1.3700e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		138.8185	138.8185	3.3200e-003	3.5500e-003	139.9585
Total	0.0528	0.1302	0.4466	1.7900e-003	0.1783	1.6400e-003	0.1799	0.0474	1.5300e-003	0.0489		185.1529	185.1529	5.6500e-003	0.0109	188.5470

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition -2023

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					0.0673	0.0000	0.0673	0.0102	0.0000	0.0102			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.0673	0.6766	0.7439	0.0102	0.6328	0.6430	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278

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	1.4900e-003	0.0953	0.0255	4.2000e-004	0.0122	7.8000e-004	0.0130	3.3600e-003	7.4000e-004	4.1000e-003		46.3344	46.3344	2.3300e-003	7.3700e-003	48.5884
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	0.0513	0.0349	0.4211	1.3700e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		138.8185	138.8185	3.3200e-003	3.5500e-003	139.9585
Total	0.0528	0.1302	0.4466	1.7900e-003	0.1783	1.6400e-003	0.1799	0.0474	1.5300e-003	0.0489		185.1529	185.1529	5.6500e-003	0.0109	188.5470

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation -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					
Fugitive Dust					5.4284	0.0000	5.4284	2.9136	0.0000	2.9136			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668		1,666.0573	1,666.0573	0.5388		1,679.5282
Total	1.1339	12.4250	6.6420	0.0172	5.4284	0.5074	5.9358	2.9136	0.4668	3.3804		1,666.0573	1,666.0573	0.5388		1,679.5282

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	0.0316	0.0215	0.2591	8.5000e-004	0.1022	5.3000e-004	0.1027	0.0271	4.9000e-004	0.0276		85.4268	85.4268	2.0400e-003	2.1800e-003	86.1283
Total	0.0316	0.0215	0.2591	8.5000e-004	0.1022	5.3000e-004	0.1027	0.0271	4.9000e-004	0.0276		85.4268	85.4268	2.0400e-003	2.1800e-003	86.1283

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation -2023

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					2.4428	0.0000	2.4428	1.3111	0.0000	1.3111			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282
Total	1.1339	12.4250	6.6420	0.0172	2.4428	0.5074	2.9502	1.3111	0.4668	1.7779	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282

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	0.0316	0.0215	0.2591	8.5000e-004	0.1022	5.3000e-004	0.1027	0.0271	4.9000e-004	0.0276		85.4268	85.4268	2.0400e-003	2.1800e-003	86.1283
Total	0.0316	0.0215	0.2591	8.5000e-004	0.1022	5.3000e-004	0.1027	0.0271	4.9000e-004	0.0276		85.4268	85.4268	2.0400e-003	2.1800e-003	86.1283

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading -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					
Fugitive Dust					6.0808	0.0000	6.0808	3.3182	0.0000	3.3182			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	6.0808	0.6044	6.6851	3.3182	0.5560	3.8742		1,995.6147	1,995.6147	0.6454		2,011.7503

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	0.0508	2.5893	0.8583	0.0104	0.2919	0.0188	0.3106	0.0800	0.0180	0.0980		1,150.1870	1,150.1870	0.0567	0.1829	1,206.1010
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	0.0395	0.0269	0.3239	1.0600e-003	0.1277	6.6000e-004	0.1284	0.0339	6.1000e-004	0.0345		106.7834	106.7834	2.5600e-003	2.7300e-003	107.6604
Total	0.0903	2.6162	1.1822	0.0115	0.4196	0.0194	0.4390	0.1139	0.0186	0.1325		1,256.9705	1,256.9705	0.0592	0.1856	1,313.7614

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading -2023

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					2.7364	0.0000	2.7364	1.4932	0.0000	1.4932			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	2.7364	0.6044	3.3407	1.4932	0.5560	2.0492	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503

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	0.0508	2.5893	0.8583	0.0104	0.2919	0.0188	0.3106	0.0800	0.0180	0.0980		1,150.1870	1,150.1870	0.0567	0.1829	1,206.1010
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	0.0395	0.0269	0.3239	1.0600e-003	0.1277	6.6000e-004	0.1284	0.0339	6.1000e-004	0.0345		106.7834	106.7834	2.5600e-003	2.7300e-003	107.6604
Total	0.0903	2.6162	1.1822	0.0115	0.4196	0.0194	0.4390	0.1139	0.0186	0.1325		1,256.9705	1,256.9705	0.0592	0.1856	1,313.7614

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

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	0.0763	2.8672	1.0563	0.0129	0.4227	0.0164	0.4391	0.1217	0.0157	0.1374		1,391.7297	1,391.7297	0.0420	0.2019	1,452.9308
Worker	0.6749	0.4591	5.5390	0.0181	2.1842	0.0113	2.1955	0.5792	0.0104	0.5896		1,825.9967	1,825.9967	0.0437	0.0467	1,840.9928
Total	0.7512	3.3262	6.5953	0.0310	2.6069	0.0277	2.6346	0.7009	0.0261	0.7270		3,217.7264	3,217.7264	0.0856	0.2485	3,293.9236

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction -2023

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

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	0.0763	2.8672	1.0563	0.0129	0.4227	0.0164	0.4391	0.1217	0.0157	0.1374		1,391.7297	1,391.7297	0.0420	0.2019	1,452.9308
Worker	0.6749	0.4591	5.5390	0.0181	2.1842	0.0113	2.1955	0.5792	0.0104	0.5896		1,825.9967	1,825.9967	0.0437	0.0467	1,840.9928
Total	0.7512	3.3262	6.5953	0.0310	2.6069	0.0277	2.6346	0.7009	0.0261	0.7270		3,217.7264	3,217.7264	0.0856	0.2485	3,293.9236

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction -2024

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	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563

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	0.0733	2.8479	1.0327	0.0127	0.4227	0.0165	0.4392	0.1217	0.0158	0.1375		1,367.5231	1,367.5231	0.0429	0.1983	1,427.6950
Worker	0.6366	0.4112	5.1622	0.0175	2.1842	0.0107	2.1949	0.5792	9.8800e-003	0.5891		1,766.2247	1,766.2247	0.0397	0.0435	1,780.1711
Total	0.7100	3.2592	6.1949	0.0301	2.6069	0.0272	2.6341	0.7009	0.0257	0.7266		3,133.7479	3,133.7479	0.0826	0.2418	3,207.8662

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction -2024

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	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563

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	0.0733	2.8479	1.0327	0.0127	0.4227	0.0165	0.4392	0.1217	0.0158	0.1375		1,367.5231	1,367.5231	0.0429	0.1983	1,427.6950
Worker	0.6366	0.4112	5.1622	0.0175	2.1842	0.0107	2.1949	0.5792	9.8800e-003	0.5891		1,766.2247	1,766.2247	0.0397	0.0435	1,780.1711
Total	0.7100	3.2592	6.1949	0.0301	2.6069	0.0272	2.6341	0.7009	0.0257	0.7266		3,133.7479	3,133.7479	0.0826	0.2418	3,207.8662

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725

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	0.0513	0.0349	0.4211	1.3700e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		138.8185	138.8185	3.3200e-003	3.5500e-003	139.9585
Total	0.0513	0.0349	0.4211	1.3700e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		138.8185	138.8185	3.3200e-003	3.5500e-003	139.9585

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving -2023

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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725

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	0.0513	0.0349	0.4211	1.3700e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		138.8185	138.8185	3.3200e-003	3.5500e-003	139.9585
Total	0.0513	0.0349	0.4211	1.3700e-003	0.1661	8.6000e-004	0.1669	0.0440	7.9000e-004	0.0448		138.8185	138.8185	3.3200e-003	3.5500e-003	139.9585

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating -2024

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	23.1462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	23.3270	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1266	0.0818	1.0264	3.4700e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		351.1792	351.1792	7.8900e-003	8.6400e-003	353.9522
Total	0.1266	0.0818	1.0264	3.4700e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		351.1792	351.1792	7.8900e-003	8.6400e-003	353.9522

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating -2024

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	23.1462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	23.3270	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1266	0.0818	1.0264	3.4700e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		351.1792	351.1792	7.8900e-003	8.6400e-003	353.9522
Total	0.1266	0.0818	1.0264	3.4700e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		351.1792	351.1792	7.8900e-003	8.6400e-003	353.9522

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.9837	3.0021	25.2381	0.0480	5.2187	0.0388	5.2575	1.3902	0.0362	1.4263		4,890.7469	4,890.7469	0.4045	0.2471	4,974.4834
Unmitigated	2.9837	3.0021	25.2381	0.0480	5.2187	0.0388	5.2575	1.3902	0.0362	1.4263		4,890.7469	4,890.7469	0.4045	0.2471	4,974.4834

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Hotel	675.00	675.00	675.00	2,479,043	2,479,043
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	586.50	586.50	586.50		
Total	1,261.50	1,261.50	1,261.50	2,479,043	2,479,043

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
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Hotel	14.70	15.00	15.00	19.40	61.60	19.00	58	38	4
Unenclosed Parking with Elevator	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
User Defined Commercial	14.70	15.00	15.00	19.40	61.60	19.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
Hotel	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
Unenclosed Parking with Elevator	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
User Defined Commercial	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

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	0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593
NaturalGas Unmitigated	0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
General Office Building	164.63	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003		19.3683	19.3683	3.7000e-004	3.6000e-004	19.4834
Hotel	40276.2	0.4344	3.9487	3.3169	0.0237		0.3001	0.3001		0.3001	0.3001		4,738.3755	4,738.3755	0.0908	0.0869	4,766.5333
Unenclosed Parking with Elevator	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
User Defined Commercial	24307	0.2621	2.3830	2.0018	0.0143		0.1811	0.1811		0.1811	0.1811		2,859.6492	2,859.6492	0.0548	0.0524	2,876.6427
Total		0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

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					
General Office Building	0.16463	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003		19.3683	19.3683	3.7000e-004	3.6000e-004	19.4834
Hotel	40.2762	0.4344	3.9487	3.3169	0.0237		0.3001	0.3001		0.3001	0.3001		4,738.3755	4,738.3755	0.0908	0.0869	4,766.5333
Unenclosed Parking with Elevator	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
User Defined Commercial	24.307	0.2621	2.3830	2.0018	0.0143		0.1811	0.1811		0.1811	0.1811		2,859.6492	2,859.6492	0.0548	0.0524	2,876.6427
Total		0.6983	6.3478	5.3322	0.0381		0.4824	0.4824		0.4824	0.4824		7,617.3930	7,617.3930	0.1460	0.1397	7,662.6593

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Mitigated	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Unmitigated	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327

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	0.4122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.6282					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3600e-003	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Total	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

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	0.4122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.6282					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3600e-003	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327
Total	7.0457	5.3000e-004	0.0580	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1245	0.1245	3.3000e-004		0.1327

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Emergency Generator	2	0	500	670	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	2	730	2	CNG

User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (2 - 5 MMBTU)	0.0324	0.0660	0.5765	3.5300e-003		0.0447	0.0447		0.0447	0.0447		705.8944	705.8944	0.0135		706.2327
Emergency Generator - Diesel (600 -750 HP)	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	0.0324	0.0660	0.5765	3.5300e-003		0.0447	0.0447		0.0447	0.0447		705.8944	705.8944	0.0135		706.2327

Jamul Casino Hotel and Event Center Project - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

Appendix H

Biological Database Searches

CNDDDB Species Occurrences within 5-Mile Radius of Project

SNAME	CNAME	TAXONGROUP	FEDLIST	CALLIST	RPLANTRANK	CDFWSTATUS
Anaxyrus californicus	arroyo toad	Amphibians	Endangered	None		SSC
Spea hammondi	western spadefoot	Amphibians	None	None		SSC
Artemisiospiza belli belli	Bell's sage sparrow	Birds	None	None		WL
Eremophila alpestris actia	California horned lark	Birds	None	None		WL
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	Birds	None	None		SSC
Polioptila californica californica	coastal California gnatcatcher	Birds	Threatened	None		SSC
Accipiter cooperii	Cooper's hawk	Birds	None	None		WL
Nannopterum auritum	double-crested cormorant	Birds	None	None		WL
Vireo bellii pusillus	least Bell's vireo	Birds	Endangered	Endangered		
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	None	None		WL
Buteo swainsoni	Swainson's hawk	Birds	None	Threatened		
Agelaius tricolor	tricolored blackbird	Birds	None	Threatened		SSC
Setophaga petechia	yellow warbler	Birds	None	None		SSC
Icteria virens	yellow-breasted chat	Birds	None	None		SSC
Sphaerocarpos drewiae	bottle liverwort	Bryophytes	None	None	1B.1	
Branchinecta sandiegonensis	San Diego fairy shrimp	Crustaceans	Endangered	None		
Quercus cedrosensis	Cedros Island oak	Dicots	None	None	2B.2	
Fraxinus parryi	chaparral ash	Dicots	None	None	2B.2	
Senecio aphanactis	chaparral ragwort	Dicots	None	None	2B.2	
Astragalus deanei	Dean's milk-vetch	Dicots	None	None	1B.1	
Isocoma menziesii var. decumbens	decumbent goldenbush	Dicots	None	None	1B.2	
Clarkia delicata	delicate clarkia	Dicots	None	None	1B.2	
Monardella hypoleuca ssp. lanata	felt-leaved monardella	Dicots	None	None	1B.2	
Lepechinia ganderi	Gander's pitcher sage	Dicots	None	None	1B.3	
Packera ganderi	Gander's ragwort	Dicots	None	Rare	1B.2	
Streptanthus bernardinus	Laguna Mountains jewelflower	Dicots	None	None	4.3	
Ceanothus cyaneus	Lakeside ceanothus	Dicots	None	None	1B.2	
Myosurus minimus ssp. apus	little mousetail	Dicots	None	None	3.1	
Fremontodendron mexicanum	Mexican flannelbush	Dicots	Endangered	Rare	1B.1	
Ribes canthariforme	Moreno currant	Dicots	None	None	1B.3	
Salvia munzii	Munz's sage	Dicots	None	None	2B.2	
Quercus dumosa	Nuttall's scrub oak	Dicots	None	None	1B.1	
Arctostaphylos otayensis	Otay manzanita	Dicots	None	None	1B.2	
Ceanothus otayensis	Otay Mountain ceanothus	Dicots	None	None	1B.2	

Deinandra conjugens	Otay tarplant	Dicots	Threatened	Endangered	1B.1	
Ericameria palmeri var. palmeri	Palmer's goldenbush	Dicots	None	None	1B.1	
Harpagonella palmeri	Palmer's grapplinghook	Dicots	None	None	4.2	
Tetracoccus dioicus	Parry's tetraococcus	Dicots	None	None	1B.2	
Stemodia durantifolia	purple stemodia	Dicots	None	None	2B.1	
Horkelia truncata	Ramona horkelia	Dicots	None	None	1B.3	
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Dicots	None	None	4.3	
Ambrosia pumila	San Diego ambrosia	Dicots	Endangered	None	1B.1	
Ferocactus viridescens	San Diego barrel cactus	Dicots	None	None	2B.1	
Eryngium aristulatum var. parishii	San Diego button-celery	Dicots	Endangered	Endangered	1B.1	
Iva hayesiana	San Diego marsh-elder	Dicots	None	None	2B.2	
Artemisia palmeri	San Diego sagewort	Dicots	None	None	4.2	
Acanthomintha ilicifolia	San Diego thorn-mint	Dicots	Threatened	Endangered	1B.1	
Clinopodium chandleri	San Miguel savory	Dicots	None	None	1B.2	
Ambrosia monogyra	singlewhorl burrobrush	Dicots	None	None	2B.2	
Cylindropuntia californica var. californica	snake cholla	Dicots	None	None	1B.1	
Atriplex pacifica	south coast saltscale	Dicots	None	None	1B.2	
Comarostaphylis diversifolia ssp. diversifolia	summer holly	Dicots	None	None	1B.2	
Dudleya variegata	variegated dudleya	Dicots	None	None	1B.2	
Southern Interior Cypress Forest	Southern Interior Cypress Forest	Forest	None	None		
Hesperocyparis forbesii	Tecate cypress	Gymnosperms	None	None	1B.1	
Bombus crotchii	Crotch bumble bee	Insects	None	None		
Lycaena hermes	Hermes copper butterfly	Insects	Threatened	None		
Deltaspis ivae	marsh-elder long-horned beetle	Insects	None	None		
Euphydryas editha quino	quino checkerspot butterfly	Insects	Endangered	None		
Callophrys thornei	Thorne's hairstreak	Insects	None	None		
Taxidea taxus	American badger	Mammals	None	None		SSC
Nyctinomops macrotis	big free-tailed bat	Mammals	None	None		SSC
Lasiurus cinereus	hoary bat	Mammals	None	None		
Myotis evotis	long-eared myotis	Mammals	None	None		
Antrozous pallidus	pallid bat	Mammals	None	None		SSC
Nyctinomops femorosaccus	pocketed free-tailed bat	Mammals	None	None		SSC
Lepus californicus bennettii	San Diego black-tailed jackrabbit	Mammals	None	None		
Neotoma lepida intermedia	San Diego desert woodrat	Mammals	None	None		SSC
Corynorhinus townsendii	Townsend's big-eared bat	Mammals	None	None		SSC
Eumops perotis californicus	western mastiff bat	Mammals	None	None		SSC
Lasiurus blossevillii	western red bat	Mammals	None	None		SSC

Myotis ciliolabrum	western small-footed myotis	Mammals	None	None		
Myotis yumanensis	Yuma myotis	Mammals	None	None		
Nolina interrata	Dehesa nolina	Monocots	None	Endangered	1B.1	
Calochortus dunnii	Dunn's mariposa-lily	Monocots	None	Rare	1B.2	
Brodiaea orcuttii	Orcutt's brodiaea	Monocots	None	None	1B.1	
Bloomeria clevelandii	San Diego goldenstar	Monocots	None	None	1B.1	
Carex obispoensis	San Luis Obispo sedge	Monocots	None	None	1B.2	
Masticophis fuliginosus	Baja California coachwhip	Reptiles	None	None		SSC
Phrynosoma blainvillii	coast horned lizard	Reptiles	None	None		SSC
Aspidoscelis tigris stejnegeri	coastal whiptail	Reptiles	None	None		SSC
Plestiodon skiltonianus interparietalis	Coronado skink	Reptiles	None	None		WL
Aspidoscelis hyperythra	orange-throated whiptail	Reptiles	None	None		WL
Crotalus ruber	red-diamond rattlesnake	Reptiles	None	None		SSC
Diadophis punctatus similis	San Diego ringneck snake	Reptiles	None	None		
Anniella stebbinsi	Southern California legless lizard	Reptiles	None	None		SSC
Thamnophis hammondi	two-striped gartersnake	Reptiles	None	None		SSC
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	Riparian	None	None		

SanBio Sensitive Species Occurrences within 2.5 mile Radius of Project

Scientific Name	Common Name	Status	LifeForm
<i>Spea hammondi</i>	Western spadefoot toad	Sensitive	Animal - Amphibian
<i>Amphispiza belli</i>	Bell's sage sparrow	Sensitive	Animal - Bird
<i>Artemisospiza belli</i>	Bell's Sparrow	Sensitive	Animal - Bird
<i>Polioptila californica</i>	California gnatcatcher	Sensitive	Animal - Bird
<i>Accipiter cooperii</i>	Cooper's hawk	Sensitive	Animal - Bird
<i>Aquila chrysaetos canadensis</i>	Golden eagle	Sensitive	Animal - Bird
<i>Ammodramus savannarum parpallidus</i>	Grasshopper sparrow	Sensitive	Animal - Bird
<i>Vireo bellii pusillus</i>	Least Bell's vireo	Sensitive	Animal - Bird
<i>Circus cyaneus hudsonius</i>	Northern harrier	Sensitive	Animal - Bird
<i>Cnemidophorus hyperythrus</i>	Orange throated whiptail	Sensitive	Animal - Bird
<i>Aimophila ruficeps canescens</i>	Southern California rufous crowned sparrow	Sensitive	Animal - Bird
<i>Cathartes aura meridionalis</i>	Turkey vulture	Sensitive	Animal - Bird
<i>Sialia mexicana</i>	Western bluebird	Sensitive	Animal - Bird
<i>Euphydryas editha quino</i>	Quino checkerspot butterfly	Sensitive	Animal - Invertebrate
<i>Nyctinomops macrotis</i>	Big free tailed bat	Sensitive	Animal - Mammal
<i>Lepus californicus</i>	Black tailed jackrabbit	Sensitive	Animal - Mammal
<i>Lynx rufus</i>	Bobcat	Sensitive	Animal - Mammal
<i>Dipodomys simulans</i>	Dulzura kangaroo rat	Sensitive	Animal - Mammal
<i>Eumops perotis californicus</i>	Greater western mastiff bat	Sensitive	Animal - Mammal
<i>Myotis evotis</i>	Long eared myotis	Sensitive	Animal - Mammal
<i>Felis concolor</i>	Mountain lion	Sensitive	Animal - Mammal
<i>Odocoileus hemionus</i>	Mule deer	Sensitive	Animal - Mammal
<i>Nyctinomops femorosaccus</i>	Pocketed free tailed bat	Sensitive	Animal - Mammal
<i>Lepus californicus bennettii</i>	San Diego black tailed jackrabbit	Sensitive	Animal - Mammal
<i>Myotis ciliolabrum</i>	Western small footed myotis	Sensitive	Animal - Mammal
<i>Myotis yumanensis</i>	Yuma myotis	Sensitive	Animal - Mammal
<i>Phrynosoma coronatum</i>	Coast horned lizard	Sensitive	Animal - Reptile
<i>Salvadora hexalepis virgultea</i>	Coast patch nosed snake	Sensitive	Animal - Reptile
<i>Eumeces skiltonianus interparietalis</i>	Coronado skink	Sensitive	Animal - Reptile

<i>Crotalus ruber</i>	Red diamond rattlesnake	Sensitive	Animal - Reptile
<i>Diadophis punctatus</i>	Ringneck snake	Sensitive	Animal - Reptile
<i>Lichanura trivirgata</i>	Rosy boa	Sensitive	Animal - Reptile
<i>Coleonyx variegatus abbottii</i>	San Diego banded gecko	Sensitive	Animal - Reptile
<i>Thamnophis hammondii</i>	Two stripe garter snake	Sensitive	Animal - Reptile
<i>Aspidoscelis tigris</i>	Western whiptail	Sensitive	Animal - Reptile
<i>Selaginella cinerascens</i>	Ashy spike moss	Sensitive	Plant
<i>Ophioglossum californicum</i>	California adder's tongue fern	Sensitive	Plant
<i>Calochortus dunnii</i>	Dunn's mariposa lily	Sensitive	Plant
<i>Quercus engelmannii</i>	Engelmann oak	Sensitive	Plant
<i>Lepechinia ganderi</i>	Gander's pitcher sage	Sensitive	Plant
<i>Achnatherum diegoensis</i>	San Diego County needlegrass	Sensitive	Plant
<i>Viguiera laciniata</i>	San Diego County viguiera	Sensitive	Plant
<i>Satureja chandleri</i>	San Miguel savory	Sensitive	Plant
<i>Juncus acutus leopoldii</i>	Southwestern spiny rush	Sensitive	Plant

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

San Diego County, California



Local office

Carlsbad Fish And Wildlife Office

☎ (760) 431-9440

🏠 (760) 431-5901

2177 Salk Avenue - Suite 250
Carlsbad, CA 92008-7385

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
<p>California Condor <i>Gymnogyps californianus</i></p> <p>There is final critical habitat for this species. The location of the critical habitat is not available.</p> <p>https://ecos.fws.gov/ecp/species/8193</p>	Endangered
<p>Coastal California Gnatcatcher <i>Polioptila californica californica</i></p> <p>Wherever found</p> <p>There is final critical habitat for this species. The location of the critical habitat is not available.</p> <p>https://ecos.fws.gov/ecp/species/8178</p>	Threatened
<p>Least Bell's Vireo <i>Vireo bellii pusillus</i></p> <p>Wherever found</p> <p>There is final critical habitat for this species. The location of the critical habitat is not available.</p> <p>https://ecos.fws.gov/ecp/species/5945</p>	Endangered
<p>Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i></p> <p>Wherever found</p> <p>There is final critical habitat for this species. The location of the critical habitat is not available.</p> <p>https://ecos.fws.gov/ecp/species/6749</p>	Endangered

Insects

NAME	STATUS
<p>Hermes Copper Butterfly <i>Lycaena hermes</i></p> <p>Wherever found</p> <p>There is final critical habitat for this species. The location of the critical habitat is not available.</p> <p>https://ecos.fws.gov/ecp/species/4379</p>	Threatened

Monarch Butterfly *Danaus plexippus* Candidate
 Wherever found
 No critical habitat has been designated for this species.
<https://ecos.fws.gov/ecp/species/9743>

Quino Checkerspot Butterfly *Euphydryas editha quino* (=E. *wrighti*) Endangered
 Wherever found
 There is **final** critical habitat for this species. The location of the critical habitat is not available.
<https://ecos.fws.gov/ecp/species/5900>

Flowering Plants

NAME	STATUS
<p>Mexican Flannelbush <i>Fremontodendron mexicanum</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/7495</p>	Endangered
<p>Otay Tarplant <i>Deinandra</i> (=Hemizonia) <i>conjungens</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/5687</p>	Threatened
<p>San Diego Ambrosia <i>Ambrosia pumila</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/8287</p>	Endangered
<p>San Diego Thornmint <i>Acanthomintha ilicifolia</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/351</p>	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<p>Allen's Hummingbird <i>Selasphorus sasin</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9637</p>	Breeds Feb 1 to Jul 15
<p>Belding's Savannah Sparrow <i>Passerculus sandwichensis beldingi</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8</p>	Breeds Apr 1 to Aug 15
<p>Black-chinned Sparrow <i>Spizella atrogularis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9447</p>	Breeds Apr 15 to Jul 31
<p>Bullock's Oriole <i>Icterus bullockii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	Breeds Mar 21 to Jul 25
<p>California Thrasher <i>Toxostoma redivivum</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Jan 1 to Jul 31
<p>Common Yellowthroat <i>Geothlypis trichas sinuosa</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/2084</p>	Breeds May 20 to Jul 31
<p>Golden Eagle <i>Aquila chrysaetos</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680</p>	Breeds Jan 1 to Aug 31

Lawrence's Goldfinch <i>Carduelis lawrencei</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9464	Breeds Mar 20 to Sep 20
Nuttall's Woodpecker <i>Picoides nuttallii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9410	Breeds Apr 1 to Jul 20
Oak Titmouse <i>Baeolophus inornatus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9656	Breeds Mar 15 to Jul 15
Olive-sided Flycatcher <i>Contopus cooperi</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914	Breeds May 20 to Aug 31
Tricolored Blackbird <i>Agelaius tricolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3910	Breeds Mar 15 to Aug 10
Wrentit <i>Chamaea fasciata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 10

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey

effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

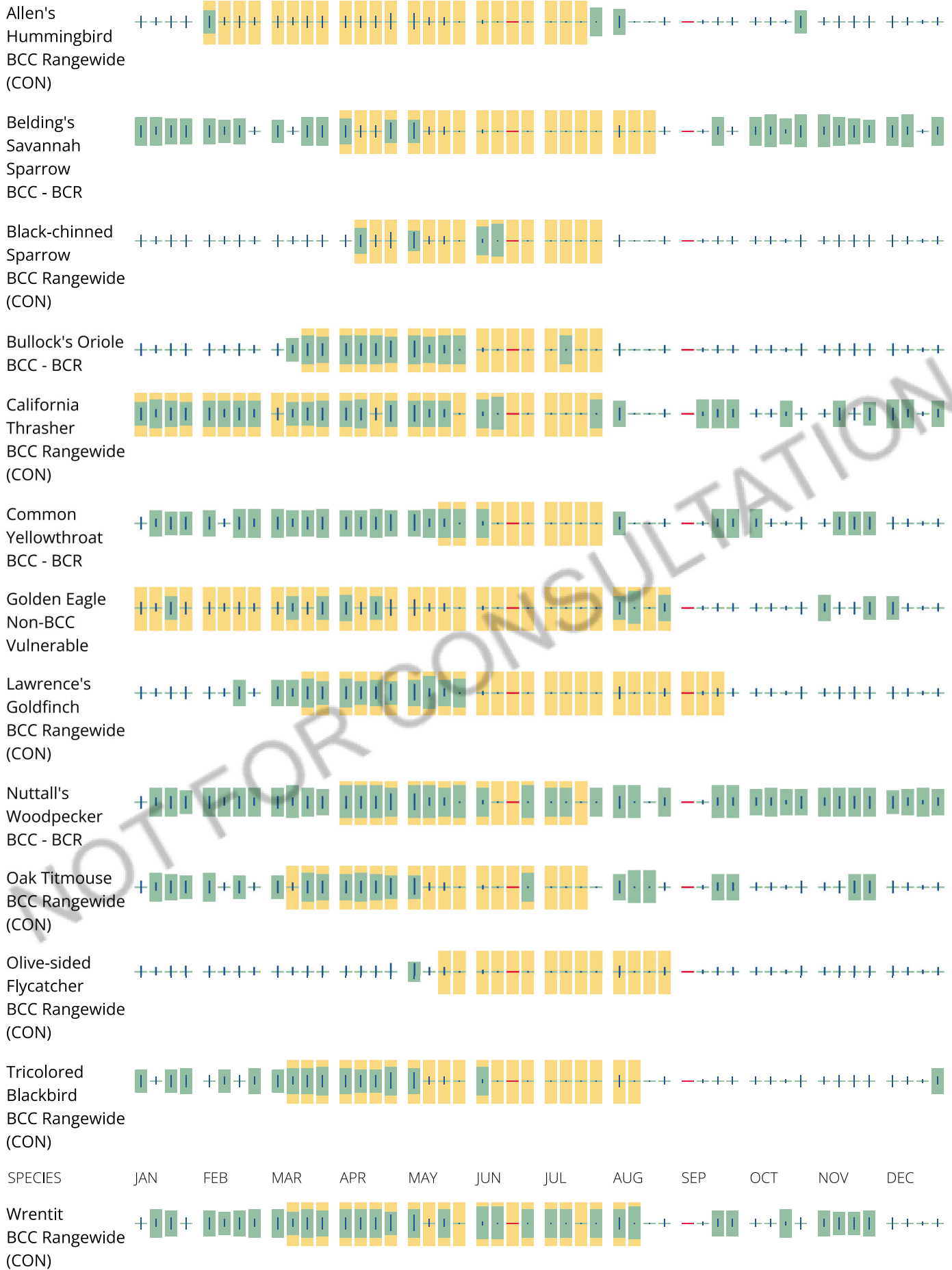
No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn

more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Coastal Barrier Resources System

Projects within the [John H. Chafee Coastal Barrier Resources System](#) (CBRS) may be subject to the restrictions on federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local [Ecological Services Field Office](#) or visit the [CBRA Consultations website](#). The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

There are no known coastal barriers at this location.

Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the [official CBRS maps](#). The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: <https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation>

Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact CBRA@fws.gov.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and

nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

Appendix I

Geotechnical Investigation

GEOTECHNICAL INVESTIGATION

Proposed Jamul Casino Expansion 14145 Campo Road, Jamul, California



Prepared for:
Jamul Indian Village Development Corporation
Jamul Casino, 14145 Campo Road
Jamul, CA 91935

NOVA Project No. 2022087
July 29, 2022



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Erica M. Pinto, Chairwoman
c/o Steve Davis, Project Director, Summit Project Management
Jamul Indian Village Development Corporation
14145 Campo Road
Jamul, CA 91935

July 29, 2022
NOVA Project No. 2022087

Subject: Geotechnical Investigation
Proposed Jamul Casino Expansion
14145 Campo Road, Jamul, California


Dear Ms. Pinto:

NOVA Services, Inc. (NOVA) is pleased to present our report describing the geotechnical investigation performed for the proposed Jamul Casino Expansion. The geotechnical investigation was conducted in general conformance with the scopes of work presented in our proposals dated April 22 and June 29 and authorized on April 29 and July 5, respectively.

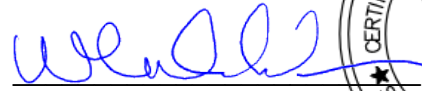
This site is considered geotechnically suitable for the proposed development provided the recommendations within this report are followed.

NOVA appreciates the opportunity to be of service to the Jamul Indian Village Development Corporation on this project. If you have any questions regarding this report, please call us at 858.292.7575 x 406.

Sincerely,
NOVA Services, Inc.



Tom Canady, PE 50057
Principal Engineer




W. Lee Vanderhurst, CEG 1125
Senior Geologist




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Senior Engineer





GEOTECHNICAL INVESTIGATION

Proposed Jamul Casino Expansion 14145 Campo Road, Jamul, California

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1. INTRODUCTION

This report presents the results of the geotechnical investigation NOVA performed for the Proposed Jamul Casino Expansion project. We understand the project will consist of design and construction of a 14-level hotel and a 6-level parking garage west of the existing casino. Development of the proposed structures will include construction of a permanent soil nail wall along the north, west, and south perimeter of the site. The purpose of NOVA's work is to provide conclusions and recommendations regarding the geotechnical aspects of the project.

Figure 1-1 presents a site vicinity map. Figure 1-2 presents a site location map.

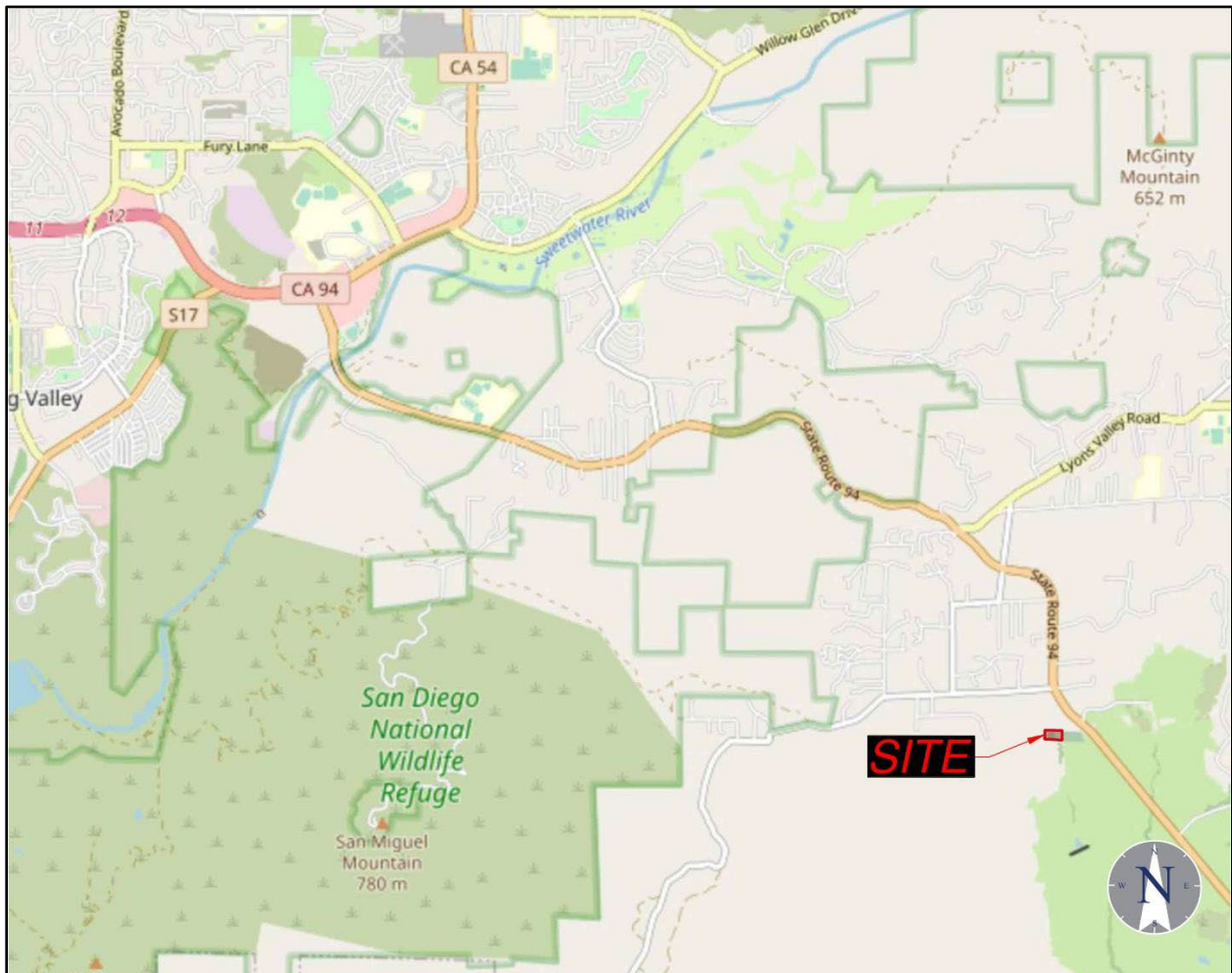


Figure 1-1. Site Vicinity Map
(Source: OpenStreetMap, 2022)



Figure 1-2. Site Location Map
(Source: Google Earth, 2022)

2. SCOPE OF WORK

2.1. Field Investigation

NOVA’s field investigation consisted of drilling four geotechnical borings (B-1 through B-4) to depths between about 10 and 29½ feet below the ground surface (bgs) using a truck-mounted drill rig equipped with hollow-stem auger. Geophysical surveys consisting of three p-wave seismic refraction traverses (S-1 through S-3) and one shear-wave traverse (SW-1) were also performed. Additionally, we utilized subsurface data from previous geotechnical reports that we were provided (LC, 2001 and CTE, 2011, 2013, and 2014). Figure 2-1 presents the approximate locations of the current and previous subsurface explorations.

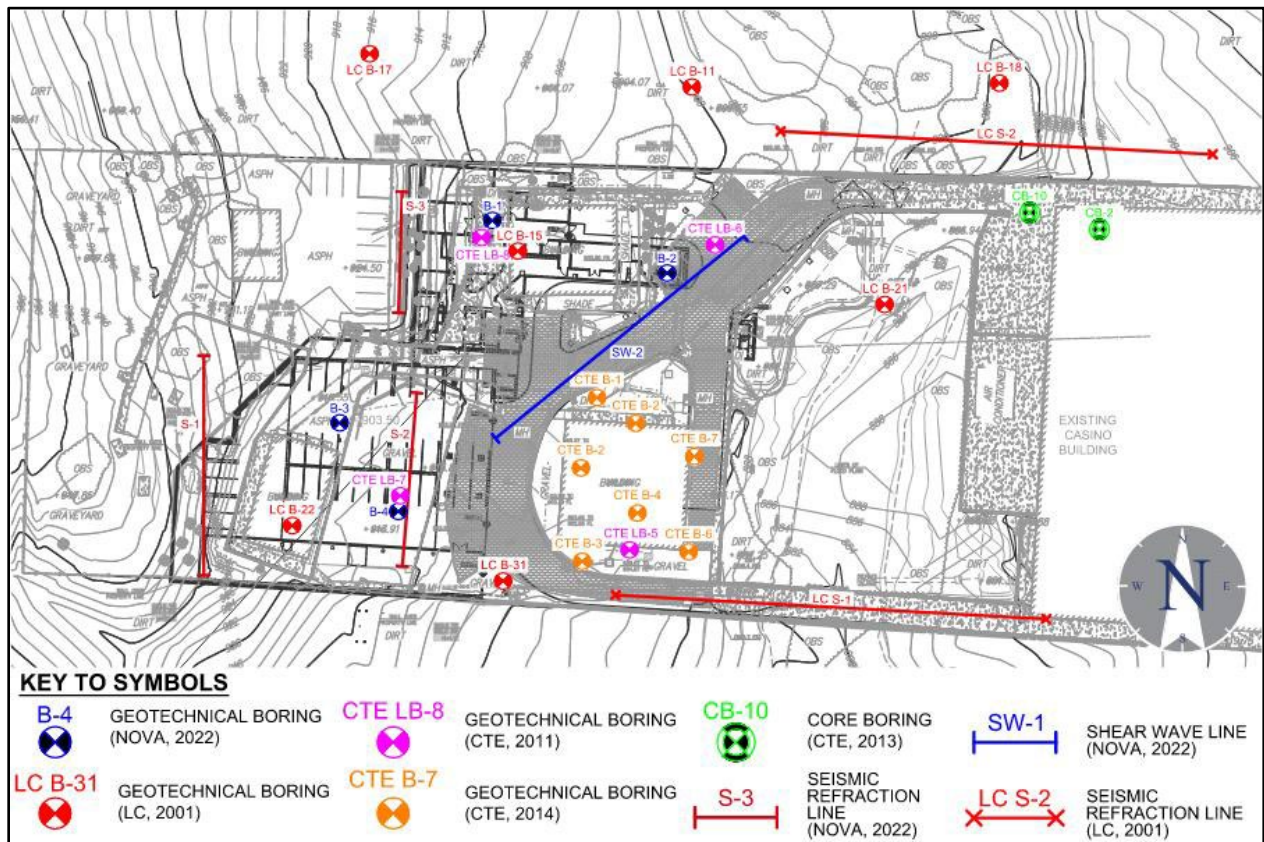


Figure 2-1. Locations of Subsurface Explorations

A NOVA geologist logged the current borings and collected samples of the materials encountered for laboratory testing. Relatively undisturbed samples were obtained using a modified California (CAL) sampler, a ring-lined split tube sampler with a 3-inch outer diameter and a 2½-inch inner diameter. Standard Penetration Tests (SPT) were performed in the borings using a 2-inch outer diameter and 1¾-inch inner diameter split tube sampler. The CAL and SPT samplers were driven using an automatic hammer with a calibrated Energy Transfer Ratio (ETR) of 70.6%. The number of blows needed to drive the sampler the final 12 inches of an 18-inch drive is noted on the logs. Sampler refusal was encountered when 50 blows were applied during any one of the three 6-inch

intervals, a total of 100 blows was applied, or there was no discernible sampler advancement during the application of 10 successive blows. The field blow counts, N , were corrected to a standard hammer (cathead and rope) with a 60% ETR. The corrected blow counts are noted on the boring logs as N_{60} . Disturbed bulk samples were obtained from the SPT sampler and the drill cuttings. Logs of the current and previous borings are presented in Appendix B. Soils are classified according to the Unified Soil Classification System.

2.2. Laboratory Testing

NOVA tested select samples to evaluate soil classification and engineering properties and develop geotechnical conclusions and recommendations. The laboratory tests consisted of in situ moisture and density, particle-size distribution, Atterberg limits, expansion index, R-value, corrosivity, and direct shear. The results of the laboratory tests and brief explanations of the test procedures are presented in Appendix C. Laboratory test results from previous geotechnical reports are also presented in Appendix C.

2.3. Geophysical Surveys

NOVA subcontracted with Terra Geosciences, a California-licensed geophysicist, to perform geophysical surveys. Three p-wave seismic refraction traverses were performed on May 7 and July 3, 2022 to estimate rippability of the subsurface materials beneath the site in the areas of anticipated excavations for the proposed parking structure and hotel buildings. A shear-wave traverse was performed on July 3, 2022 to estimate the average shear-wave velocity (v_s) of the upper 100 feet of the soil and rock underlying the site. The testing is used to determine (i) stiffness of the materials and (ii) Site Class in accordance with ASCE 7-16, Table 20.3-1. Additionally, we utilized two previous p-wave seismic refraction traverses (LC, 2001). The approximate alignments of the survey lines are shown in Figure 2-1 and Plate 1. Results of the geophysical surveys are presented in Appendix D.

2.4. Analysis and Report Preparation

The results of the field and laboratory testing were evaluated to develop conclusions and recommendations regarding the geotechnical aspects of the proposed construction. This report presents our findings, conclusions, and recommendations.

3. SITE AND PROJECT DESCRIPTION

3.1. Site Description and Current Use

The site of the proposed hotel and parking structure is located to the west of the existing Jamul Casino. The site is currently occupied by several smaller structures, including a community center, a wastewater treatment plant, and tribal offices. The site is bordered by undeveloped land on the north and south, Willow Creek on the east, and the Saint Francis Xavier Cemetery on the west. The site slopes downward to the east with elevations ranging from about +940 feet mean sea level (msl) at the southwestern corner of the site to about +887 feet msl in Willow Creek.

Available historic topography and historic aerial photos indicate the site has supported development since at least 1953, the date of the earliest available historic imagery. Prior to the 1990s, when the Saint Francis Xavier Cemetery was constructed, the site supported light development including small structures and unpaved roadways. The current site grades were made during about the last 10 years using cuts and fills to develop pads supporting the existing structures. By 2012, the community center had been constructed, and by 2016, the wastewater treatment plant was completed. The site has existed in its current configuration since that time.

3.2. Proposed Development

Based on the provided structural plans (kpff, 2022), we understand the proposed development will consist of design and construction of a 14-story hotel building and a 6-level parking structure. According to Shaun Walters of kpff, typical column loads for the hotel building will be 700 to 1,500 kips dead load and 200 to 400 kips live load; column loads for the eastern tower will be 3,500 kips dead load and 600 kips live load. As currently planned, the hotel building will have a finished floor elevation of 903½ feet and will be supported on a mat foundation in the western portion of the building and cast-in-drill-hole (CIDH) concrete piles in the eastern portion of the building. The parking structure will be supported on shallow spread footings. Permanent soil nail retaining walls up to about 15 and 45 feet in height will be constructed west of the hotel building and parking structure, respectively. Site improvements will include new vehicular pavements, pedestrian hardscape, and landscaping.

3.3. Anticipated Earthwork

Based on review of the provided preliminary grading plans (HWL, 2022), we understand the proposed grading will include cuts up to about 15 and 45 feet for the western portions of the hotel building and parking structure, respectively. Other anticipated earthwork will include site preparation, remedial grading, fine grading, placement and compaction of fill and backfill, temporary excavations for underground utilities, and preparation of subgrade soils beneath hardscape and pavements.

4. GEOLOGY AND SUBSURFACE CONDITIONS

4.1. Regional Geology

The project site is within the Peninsular Ranges Geomorphic Province of California, which stretches from the Los Angeles basin to the tip of Baja California in Mexico. In general, the province consists of northwest-trending mountains underlain by Tertiary sedimentary rocks, Cretaceous igneous rocks of the Peninsular Ranges batholith, and Mesozoic meta-volcanic and metasedimentary rocks (CGS, 2002). The Peninsular Ranges Province is traversed by a group of sub-parallel faults and fault zones trending roughly northwest. Several of these faults are considered active. The Elsinore, San Jacinto, and San Andreas Fault Zones are active systems located east of the project area and the Newport-Inglewood, Agua Blanca-Coronado Bank, and San Clemente Fault Zones are active systems located offshore, west of the site. The majority of these faults have right-lateral, strike-slip movement. Uplift associated with these faults has created a diverse topographic environment that has also brought hazards such as landslides, mudslides, and hillside creep (gradual downhill soil movement).

Regional geologic maps of the subject property and vicinity (USGS, 2004) indicate the subject property is underlain by early Cretaceous granitic rock (Kgr) consisting of undivided tonalite and granodiorite. Figure 4-1 presents the regional geology in the vicinity of the site.

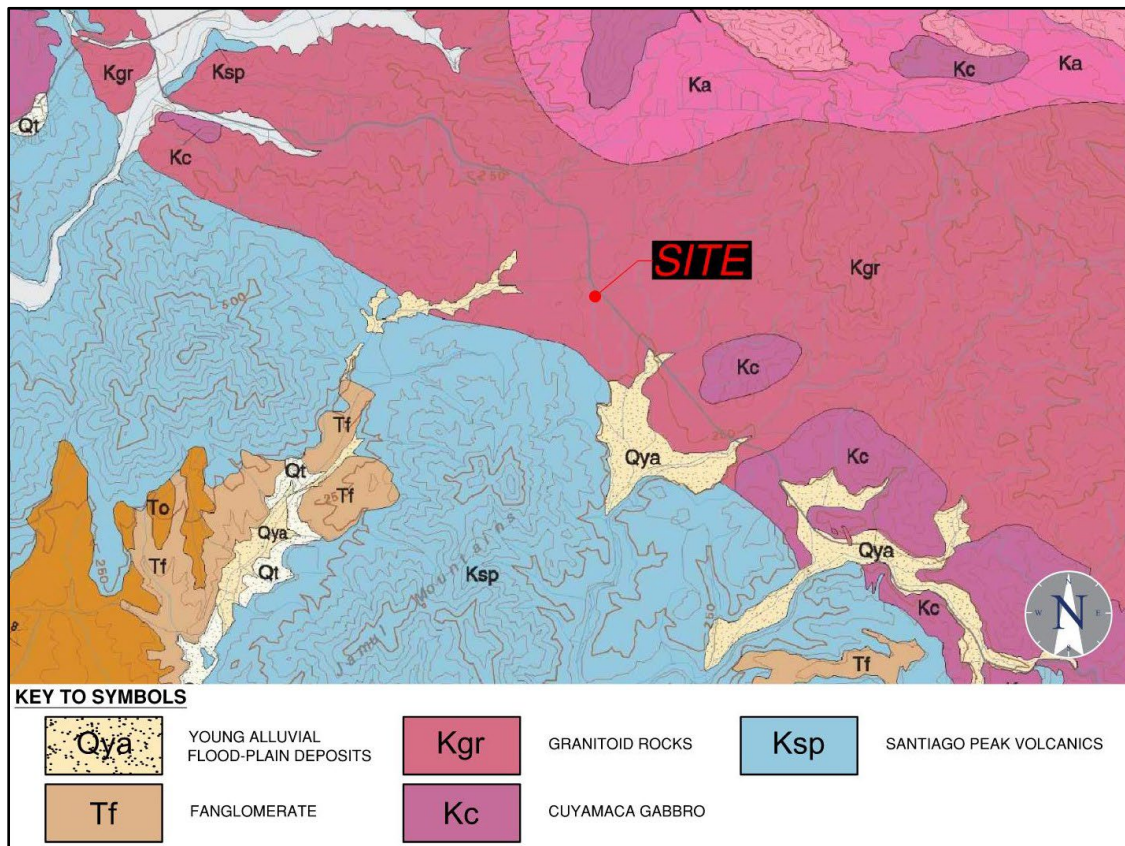


Figure 4-1. Regional Geology Map

4.2. Site-Specific Geology

The site is underlain by fill, alluvium, and granitic rock. Descriptions of the materials encountered are presented below. The Geotechnical Map (Plate 1) and Geologic Cross-Sections (Plate 2) present the site-specific geology.

Fill (af): Fill was encountered in three of our four borings (B-2 through B-4) to depths between about 4 and 13 feet bgs. As encountered in our borings, the fill consisted of loose to medium dense silty and clayey sand with varying amounts gravel-sized rock fragments. NOVA has no records regarding the placement and compaction of the fill; therefore, it is considered undocumented and at risk for wide variations in quality. Figure 4-2 presents a photograph of undocumented fill encountered in B-2.



Figure 4-2. Fill in Boring B-2

Alluvium (Qal): Alluvium was encountered in previous borings LC B-18 and LC B-21 to a depth of about 8 feet bgs (LC, 2001). The alluvium is associated with Willow Creek. As encountered in the borings, the alluvium consisted of loose to medium dense silty sand.

Granitic Rock (Kgr): Granitic rock was encountered beneath the concrete driveway in boring B-1 and beneath the fill in borings B-2 through B-4. As encountered in our borings, the granitic rock was generally decomposed to intensely weathered and broke down to dense to very dense silty and clayey sand during drilling. Figure 4-3 presents a photograph of the granitic rock encountered in Boring B-4.



Figure 4-3. Granitic Rock in Boring B-4

Groundwater: Groundwater was not encountered in our borings. However, standing water and wet soil conditions were observed in the area of Willow Creek. Perched groundwater seepage may occur in the future due to rainfall, irrigation, broken pipes, or changes in site drainage. Because perched groundwater conditions are difficult to predict, such conditions are typically mitigated if and when they occur.

5. GEOLOGIC HAZARDS

5.1. Faulting and Surface Rupture

The site is located in a seismically active area, as is the majority of southern California, and the potential for strong ground motion is considered significant during the design life of the proposed structure. Major known active faults in the region consist generally of en echelon, northwest striking, right-lateral, strike-slip faults. These include the San Andreas, Elsinore, and San Jacinto Faults located northeast of the site, and the San Clemente, San Diego Trough, and Agua Blanca-Coronado Bank Faults located to the west of the site.

5.1.1 *Faulting in the Site Vicinity*

The site is not located in an Alquist-Priolo Earthquake Fault Zone. The nearest active fault is located about 16.2 miles west of the site within the San Diego section of the Newport-Inglewood-Rose Canyon Fault Zone (NIRC), which is recognized to have the potential for a Magnitude 6.99 seismic event. Evidence of active faulting was not observed at the site during our field investigation. The probability of fault rupture is considered very low.

Figure 5-1 shows the locations of known faults in the region of the site. Active faults are presented in orange, potentially active faults with displacement dating between 11,700 years and 700,000 years b.p. are presented in green, and undifferentiated Quaternary faults are presented in purple.

5.1.2 *Strong Ground Motion*

The site is located in a seismically active area, as is the majority of southern California, and the potential for strong ground motion is considered significant during the design life of the proposed structure. The fault zone with the most potential for strong ground motion at the site is the NIRC. This fault zone is estimated to be able to generate earthquakes of $M_w = 6.99$.

The seismicity of the site was evaluated utilizing a web-based tool (SEAOC, 2022). The evaluation indicates that the site may be subject to site-adjusted Peak Ground Accelerations (PGA_M) of 0.366g.

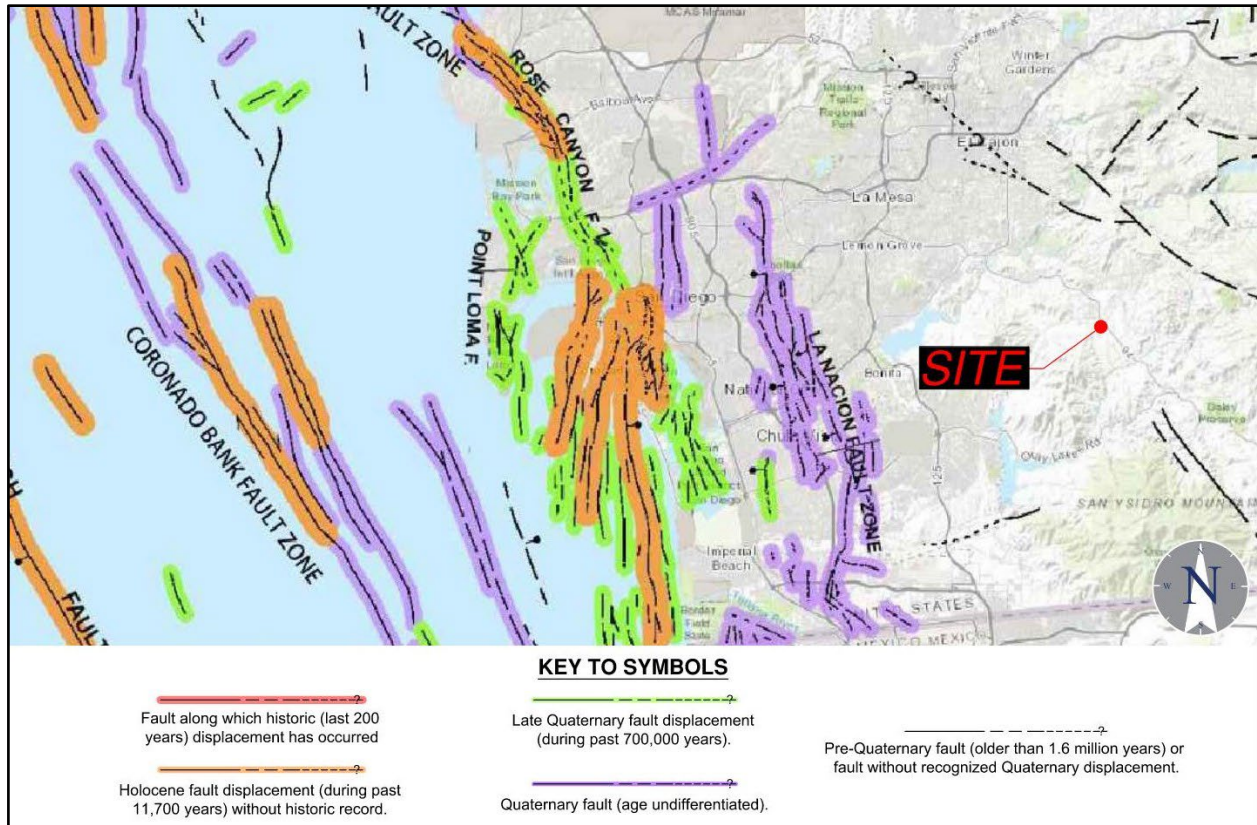


Figure 5-1. Fault Map
 (Source: CGS, 2022)

5.2. Site Class

Site Class is determined by the weighted average of shear-wave velocity or Standard Penetration Test (SPT) resistance values (N-values) of the upper 100 feet of the soil and rock underlying a site. Materials displaying an average shear-wave velocity between 1,200 and 2,500 feet/second and SPT N-value greater than 50 blows/foot in the upper 100 feet are considered Site Class C. Based on the average shear-wave velocity of about 1,300 feet/second and the average N-values in the borings exceeding 50 blows/foot, the Site Class is C in accordance with ASCE 7-16 (Table 20.3-1).

5.3. California Building Code (CBC) Seismic Design Parameters

A geologic hazard likely to affect the project is ground shaking as a result of movement along an active fault zone in the vicinity of the subject site. Table 5-1 provides the site coefficients and maximum considered earthquake (MCE_R) spectral response acceleration parameters in accordance with the 2019 CBC and ASCE 7-16.

Table 5-1. 2019 CBC and ASCE 7-16 Seismic Design Parameters

Site Coordinates	
Latitude: 32.70323°	Longitude: -116.87092°
Site Coefficients and Spectral Response Acceleration Parameters	Value
Site Class	C
Site Coefficients, F_a	1.216
Site Coefficients, F_v	1.500
Mapped Spectral Response Acceleration at Short Period, S_s	0.709g
Mapped Spectral Response Acceleration at 1-Second Period, S_1	0.264g
Mapped Design Spectral Acceleration at Short Period, S_{DS}	0.575g
Design Spectral Acceleration at 1-Second Period, S_{D1}	0.264g
Site Peak Ground Acceleration, PGA_M	0.366g

5.4. Landslides and Slope Stability

Evidence of landslides, deep-seated landslides, or slope instabilities was not observed at the time of NOVA's field evaluation. Additionally, there are no mapped landslides in the vicinity of the project site. The potential for landslides or slope instabilities to occur at the site is considered very low given the flat topography and shallow granitic rock beneath the site.

5.5. Liquefaction and Dynamic Settlement

Liquefaction occurs when loose, saturated, generally fine sands and silts are subjected to strong ground shaking. The soils lose shear strength and become liquid, resulting in large total and differential ground surface settlements, as well as possible lateral spreading during an earthquake. Due to the lack of shallow groundwater and given the relatively dense nature of the materials beneath the site, the potential for liquefaction and dynamic settlement to occur is considered low.

5.6. Flooding, Tsunamis, and Seiches

The site is mapped within Zone X (FEMA, 2012), which are areas of minimal flood hazard. As such, the probability for a flood to affect the site is considered low. The site is not located within a mapped area on the State of California Tsunami Inundation Maps (Cal EMA, 2009); therefore, damage due to tsunamis is considered negligible. Seiches are periodic oscillations in large bodies of water such as lakes, harbors, bays, or reservoirs. The site is not located adjacent to any lakes or confined bodies of water; therefore, the potential for a seiche to affect the site is considered negligible.

5.7. Subsidence

The site is not located in an area of known subsidence associated with fluid withdrawal (groundwater or petroleum); therefore, the potential for subsidence due to the extraction of fluids is considered negligible.

5.8. Hydro-Consolidation

Hydro-consolidation can occur in recently deposited sediments (less than 10,000 years old) that were deposited in a semi-arid environment. Examples of such sediments are eolian sands, alluvial fan deposits, and mudflow sediments deposited during flash floods. The pore spaces between the particle grains can re-adjust when inundated by groundwater, causing the material to consolidate. The relatively dense materials underlying the site are not considered susceptible to hydro-consolidation.

6. CONCLUSIONS

Based on the results of our investigation, we consider the proposed construction feasible from a geotechnical standpoint provided the recommendations contained in this report are followed. Geotechnical conditions exist that should be addressed prior to construction. Geotechnical design and construction considerations include the following.

- There are no known active or potentially active faults underlying the site. The primary seismic hazard at the site is the potential for moderate to severe ground shaking in response to large-magnitude earthquakes generated during the lifetime of the proposed construction. The risk of strong ground motion is common to all construction in southern California and is typically mitigated through building design in accordance with the CBC. While strong ground motion could affect the site, the risk of liquefaction is considered negligible.
- The site is underlain by fill, alluvium, and granitic rock. The granitic rock is considered suitable for support of the proposed hotel and parking structure. The fill and alluvium, however, are potentially compressible and unsuitable for support of the proposed structures. Foundations for the proposed structures will extend through the fill and alluvium and into granitic rock. Some remedial grading will need to be performed in areas to receive hardscape, pavements, site walls, and site retaining walls to reduce the potential for distress. Recommendations for compressible soils are provided in this report.
- The on-site silty and clayey sand (fill, alluvium, and weathered granitic rock) are anticipated to have a very low expansion potential and are suitable for reuse as compacted fill.
- Excavations in fill and decomposed to intensely weathered granitic rock are anticipated to be generally achievable using standard heavy earthmoving equipment in good-working order with experienced operators. However, excavations in less weathered rock will require extra effort such as ripping, rock breaking, and/or blasting. Excavations may also generate oversized material that will require extra effort to screen, crush, or export from the site.
- The hotel building can be supported on a mat foundation bearing entirely on competent granitic rock in the western portion of the building and on CIDH piles embedded into granitic rock in the eastern portion. The parking structure can be supported on shallow spread footings with bottom levels bearing entirely on competent granitic rock. To accommodate bearing on competent granitic rock in areas of deeper fill/alluvium, 3-sack sand/cement slurry can be placed between the bottom of shallow foundations (mat/spread footing) and the underlying granitic rock. Recommendations for foundations are provided in this report.
- Groundwater was not encountered in our borings. However, standing water and wet soil conditions were observed in Willow Creek, and we anticipate that groundwater will be encountered during installation of CIDH piles. Additionally, groundwater seepage may be encountered due to rainfall, irrigation, broken pipes, or changes in site drainage. Because perched groundwater conditions are difficult to predict, such conditions are typically mitigated if and when they occur.

7. RECOMMENDATIONS

The remainder of this report presents recommendations regarding earthwork construction as well as preliminary geotechnical recommendations for the design of the proposed improvements. These recommendations are based on empirical and analytical methods typical of the standard-of-practice in southern California. If these recommendations appear not to address a specific feature of the project, please contact our office for additions or revisions to the recommendations. The recommendations presented herein may need to be updated once final plans are developed.

7.1. Earthwork

Grading and earthwork should be conducted in accordance with the CBC and the recommendations of this report. The following recommendations are provided regarding specific aspects of the proposed earthwork construction. These recommendations should be considered subject to revision based on field conditions observed by a NOVA representative during grading.

7.1.1 Site Preparation

Site preparation should begin with the removal of existing improvements, vegetation, and debris. Subsurface improvements that are to be abandoned should be removed, and the resulting excavations should be backfilled and compacted in accordance with the recommendations of this report. Pipeline abandonment can consist of capping or rerouting at the project perimeter and removal within the project perimeter. If appropriate, abandoned pipelines can be filled with grout or slurry as recommended by and observed by the geotechnical consultant.

7.1.2 Compressible Soils

Compressible soils are anticipated to consist of existing fill and alluvium. Remedial grading of compressible soils should be performed beneath structures, hardscape, settlement-sensitive improvements, and wherever the existing soils are dry or disturbed. The planned excavations are anticipated to remove compressible soils beneath the parking structure and the western portion of the hotel building, and deep foundations extending through the compressible soils and into the underlying granitic rock will be used to support the eastern portion of the hotel building. However, we recommend that some remedial excavations to remove compressible soils be performed beneath proposed hardscape, pavements, site walls, and site retaining walls to reduce the potential for distress. Beneath proposed pedestrian hardscape, the existing soils should be excavated to a depth of at least 2 feet below existing grade or planned subgrade elevation, whichever is deeper. Beneath proposed vehicular pavement areas, the existing soils should be excavated to a depth of at least 1 foot below existing grade or planned subgrade elevation, whichever is deeper. Beneath site walls and retaining walls not connected to buildings, the existing soils should be excavated to a depth of at least 2 feet below bottom of footing. Horizontally, excavations should extend at least at least 2 feet outside the planned improvement or up to existing improvements or the limits of grading, whichever is less. NOVA should observe the conditions exposed in the bottom of excavations to evaluate whether additional excavation is recommended. The excavation should be filled with material suitable for reuse as compacted fill.

7.1.3 *Cut/Fill Transitions*

The proposed hotel building and parking structure should not be supported on cut/fill transitions. To mitigate such conditions and reduce the potential for adverse settlement, the structures should be supported on foundations bearing entirely in competent granitic rock, as currently planned.

7.1.4 *Expansive Soil*

The on-site soils tested have expansion indexes (EIs) ranging from 0 to 16, classified as very low expansion potential. To reduce the potential for expansive heave, the top 2 feet of material beneath pedestrian hardscape and site wall and site retaining wall footings should have an EI of 50 or less. Horizontally, the soils having an EI of 50 or less should extend at least 2 feet outside hardscape and wall footings or up to existing improvements or the limits of grading, whichever is less. We anticipate that the on-site silty and clayey sand will meet the EI criteria. Clays, if encountered, are not expected to meet the EI criteria.

7.1.5 *Compacted Fill*

Excavated soils free of organic matter, construction debris, rocks greater than 6 inches, and expansive soil as described above should generally be suitable for reuse as compacted fill. Areas to receive fill should be scarified to a depth of 6 to 8 inches, moisture conditioned to near optimum moisture content, and compacted to at least 90% relative compaction. If competent granitic rock is exposed, scarification and recompaction need not be performed. Fill and backfill should be placed in 6- to 8-inch-thick loose lifts, moisture conditioned to near optimum moisture content, and compacted to at least 90% relative compaction. The top 12 inches of subgrade beneath pavements should be compacted to at least 95% relative compaction. The maximum density and optimum moisture content for the evaluation of relative compaction should be determined in accordance with ASTM D1557.

7.1.6 *Imported Soil*

Imported soil should consist of predominately granular soil, free of organic matter and rocks greater than 6 inches. Imported soil should be observed and, if appropriate, tested by NOVA prior to transport to the site to evaluate suitability for the intended use.

7.1.7 *Subgrade Stabilization*

Excavation bottoms should be firm and unyielding prior to placing fill. In areas of saturated or yielding subgrade, a reinforcing geogrid such as Tensar® Triax® TX-5 or equivalent can be placed on the excavation bottom, and then at least 12 inches of aggregate base placed and compacted. Once the surface of the aggregate base is firm enough to achieve compaction, then the remaining excavation should be filled to finished pad grade with suitable material.

7.1.8 *Excavation Characteristics*

Excavation characteristics were estimated based on the seismic refraction topographic models presented in Appendix D and the Caterpillar D9 Ripper Performance Chart (Caterpillar, 2017) provided in Figure 7-1 below for reference. The estimated depths to the different rippability classifications (rippable, marginally rippable, and non-rippable) are based on the seismic

velocities in the topographic models and the rippability ranges for granite (igneous rocks) provided in the chart. For granite, seismic velocities less than about 6,800 feet per second (ft/sec) are generally considered rippable. Seismic velocities ranging from about 6,800 to 8,000 ft/sec are generally considered marginally rippable. Seismic velocities greater than about 8,000 ft/sec are generally considered non-rippable.

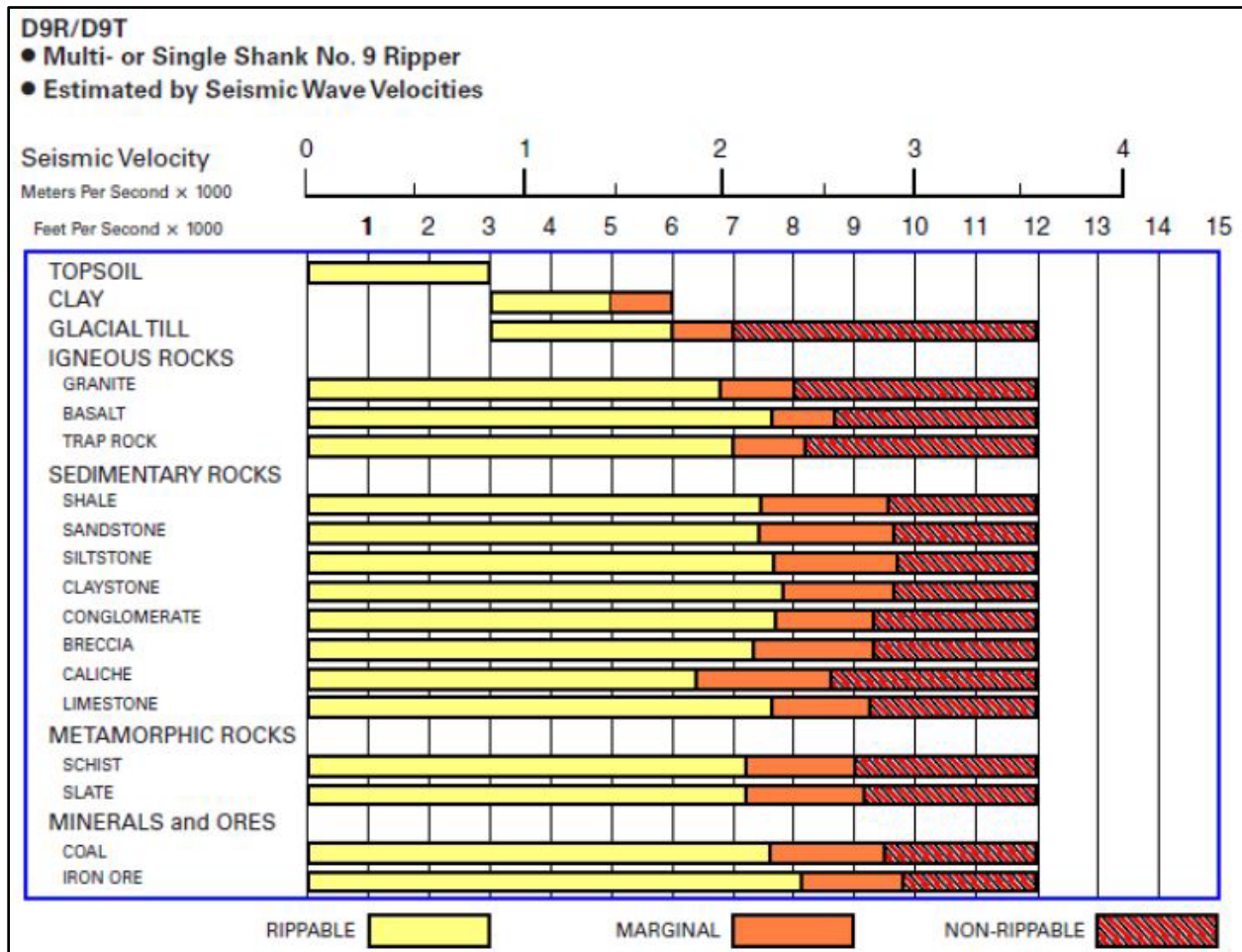


Figure 7-1. Caterpillar D9 Ripper Performance Chart

The existing fills are anticipated to be rippable utilizing conventional heavy-duty earth moving equipment. The upper weathered granitic rock to depths of about 15 feet the beneath the hotel site and about 35 feet beneath the parking structure site are anticipated to be rippable as well utilizing heavy duty conventional earth moving equipment. Below these zones, the granitic rock is anticipated to be marginally rippable and non-rippable at depth. Blasting will likely be required. Blasting will most likely produce oversized material, requiring special handling.

Please note that the velocity ranges of these classifications are approximate and that rock characteristics, including jointing and fracturing, spacing, and orientation, are a major factor in determining rippability. Localized zones of potentially non-rippable bedrock, such as core stones, should be anticipated to be encountered above the estimated non-rippable bedrock depths. It is

recommended that contractors review the provided subsurface data and independently estimate potential heavy ripping/blasting quantities based on their experience.

7.1.9 Oversized Material

Excavations are anticipated to generate oversized material, particularly excavations in granitic rock. Oversized material is defined as rocks greater than 6 inches in largest dimension. Oversized material should be broken down to no greater than 6 inches in largest dimension for use in fill, use as landscape material, or disposed of off-site.

7.1.10 Temporary Excavations

Temporary excavations 3 feet deep or less can be made vertically. Deeper temporary excavations in fill should be laid back no steeper than 1:1 (horizontal:vertical) (h:v). Deeper temporary excavations in granitic rock should be laid back no steeper than ½:1 (h:v). The faces of temporary slopes should be inspected daily by the contractor's Competent Person before personnel are allowed to enter the excavation. Any zones of potential instability, sloughing, or raveling should be brought to the attention of the engineer and corrective action implemented before personnel begin working in the excavation. Excavated soils should not be stockpiled behind temporary excavations within a distance equal to the depth of the excavation. NOVA should be notified if other surcharge loads are anticipated so that lateral load criteria can be developed for the specific situation.

If temporary slopes are to be maintained during the rainy season, berms are recommended along the tops of slopes to prevent runoff water from entering the excavation and eroding the slope faces. Slopes steeper than those described above will require shoring. Soldier piles and lagging, internally braced shoring, or trench boxes could be used. If trench boxes are used, the soil immediately adjacent to the trench box is not directly supported. Ground surface deformations immediately adjacent to the pit or trench could be greater where trench boxes are used compared to other methods of shoring.

7.1.11 Slopes

Permanent slopes should be constructed no steeper than 2:1 (h:v). Faces of fill slopes should be compacted either by rolling with a sheepsfoot roller or other suitable equipment, or by overfilling and cutting back to design grade. Fills should be benched into sloping ground inclined steeper than 5:1 (h:v). In NOVA's opinion, slopes constructed no steeper than 2:1 (h:v) will possess an adequate factor of safety. An engineering geologist should observe cut slopes during grading to ascertain that no unforeseen adverse geologic conditions are encountered that require revised recommendations. Slopes are susceptible to surficial slope failure and erosion. Water should not be allowed to flow over the top of slope. Additionally, slopes should be planted with vegetation that will reduce the potential for erosion.

7.1.12 Groundwater Seepage

Seepage from perched groundwater is anticipated to occur locally in excavations. If dewatering is necessary, the dewatering method should be evaluated and implemented by an experienced dewatering subcontractor.

7.1.13 Surface Drainage

Final surface grades around structures should be designed to collect and direct surface water away from structures, including retaining walls, and toward appropriate drainage facilities. The ground around the structure should be graded so that surface water flows rapidly away from the structure without ponding. In general, we recommend that the ground adjacent to the structure slope away at a gradient of at least 2%. Densely vegetated areas where runoff can be impaired should have a minimum gradient of at least 5% within the first 5 feet from the structure. Roof gutters with downspouts that discharge directly into a closed drainage system are recommended on structures. Drainage patterns established at the time of fine grading should be maintained throughout the life of the proposed structures. Site irrigation should be limited to the minimum necessary to sustain landscape growth. Should excessive irrigation, impaired drainage, or unusually high rainfall occur, saturated zones of perched groundwater can develop.

7.1.14 Grading Plan Review

NOVA should review the grading plans and earthwork specifications to ascertain whether the intent of the recommendations contained in this report have been implemented, and that no revised recommendations are needed due to changes in the development scheme.

7.2. Foundations

The foundation recommendations provided herein are considered generally consistent with methods typically used in southern California. Other alternatives may be available. Our recommendations are only minimum criteria based on geotechnical factors and should not be considered a structural design, or to preclude more restrictive criteria of governing agencies or by the structural engineer. The design of the foundation system should be performed by the project structural engineer, incorporating the geotechnical parameters described herein and the requirements of applicable building codes.

The proposed hotel building and parking structure should be supported on foundations bearing entirely on competent granitic rock. As previously mentioned, the hotel building will be supported on a mat foundation bearing entirely on competent granitic rock in the western portion of the building and on CIDH piles embedded into granitic rock in the eastern portion. The parking structure will be supported on shallow spread footings with bottom levels bearing entirely on competent granitic rock. To accommodate bearing on granitic rock in areas of deeper fill/alluvium, 3-sack sand/cement slurry can be placed between the bottom of shallow foundations (mat/spread footing) and the underlying granitic rock. Site walls and site retaining walls not connected to buildings can be supported on shallow spread footings with bottom levels bearing on compacted fill or granitic rock.

7.2.1 Spread Footings

Footings should extend at least 24 inches below lowest adjacent finished grade. A minimum width of 36 inches is recommended for column footings and 24 inches for continuous or retaining footings. An allowable bearing capacity of 15,000 psf can be used for spread footings supported on competent granitic rock or on 3-sack sand/cement slurry extending down to competent rock.

An allowable bearing capacity of 2,500 psf can be used for footings supported on compacted fill. The bearing value can be increased by $\frac{1}{3}$ when considering the total of all loads, including wind or seismic forces. Footings located adjacent to or within slopes should be extended to a depth such that a minimum horizontal distance of 10 feet exists between the lower outside footing edge and the face of slope.

Lateral loads will be resisted by friction between the bottoms of footings and passive pressure on the faces of footings and other structural elements below grade. An allowable coefficient of friction of 0.50 can be used for competent granitic rock. An allowable coefficient of friction of 0.35 can be used for compacted fill. An allowable passive pressure of 500 psf per foot of depth below the ground surface can be used for granitic rock. An allowable passive pressure of 350 psf per foot of depth below the ground surface can be used for compacted fill. The passive pressure values assume level ground conditions where the ground is horizontal for a distance of at least 10 feet or three times the height generating the passive pressure. The allowable passive pressures should be reduced for sloping ground conditions. The passive pressure can be increased by $\frac{1}{3}$ when considering the total of all loads, including wind or seismic forces. The upper 1 foot of soil should not be relied on for passive support unless the ground is covered with pavements or slabs.

7.2.2 Mat Foundation

An allowable bearing capacity of 15,000 psf can be used for mat foundations supported on competent granitic rock. The bearing capacity can be increased by $\frac{1}{3}$ when considering the total of all loads, including wind or seismic forces. Thickness and reinforcement of the mat foundation should be designed by the project structural engineer. Mat foundations typically experience some deflection due to loads placed on the mat and the reaction of the soils underlying the mat. A design modulus of subgrade reaction, K , of 350 pounds per cubic inch (pci) can be used for the subgrade soils in evaluating such deflections. This value is based on an area of 1 square foot and should be adjusted for larger mats. Adjusted values of the modulus of subgrade reaction, K_v , can be obtained from the following equation for square mats of various widths:

$$K_v = K \left[\frac{B + 1}{2B} \right]^2 \text{ (pci)}$$

Where, B is the width of the mat in feet.

Adjusted values of the modulus of subgrade reaction, K' , can be obtained from the following equation for rectangular mats:

$$K' = \frac{K_v \left(1 + 0.5 \left(\frac{B}{L} \right) \right)}{1.5} \text{ (pci)}$$

Where, B is width the and L is the length of the mat in feet.

7.2.3 CIDH Piles

The net allowable axial downward and uplift capacities of a 24-, 30-, and 36-inch diameter CIDH pile were estimated using the computer program All-Pile v7. We assumed that downward support would be obtained from sidewall friction and end bearing in weathered granitic rock using a factor of safety of 2.0, and that uplift resistance would be obtained by sidewall friction and the weight of the pile using factors of safety of 3.0 and 1.1 for sidewall friction and the weight of the pile, respectively. Frictional and end bearing capacity was ignored in the fill and alluvium. The pile capacities are based on the strength of the soils; the strength of the pile section itself should be checked to verify the structural capacity of the pile. Piles should be spaced at least three pile diameters, center to center. Piles should be embedded at least 10 feet into competent granitic rock. Appendix E presents the recommended axial downward and uplift capacities.

Lateral loads can be resisted by passive pressure on the piles and pile caps. An allowable passive pressure of 350 psf per foot of embedment acting on twice the pile diameter up to a maximum of 5,000 psf can be used, based on a lateral deflection up to ½ inch at the ground surface and level ground conditions. The upper 1 foot of soil should not be relied on for passive support unless the ground is covered with pavements or slabs. NOVA can perform a more detailed lateral pile analysis, upon request, once boundary conditions (e.g., applied shear force/bending moment or allowable lateral deflection) are provided by the structural engineer. The axial and passive pressure values can be increased by ⅓ when considering the total of all loads, including wind or seismic forces.

Groundwater should be anticipated during pile construction. Installation of CIDH piles below groundwater will require special construction techniques and equipment, such as temporary casing and/or drilling slurry. Hard drilling conditions should be anticipated in granitic rock. Piles should be filled with concrete the same day drilled is completed. Drilled holes should not be left open overnight.

The portion of the hotel building supported on CIDH piles and underlain by the reinforced zone fill of the existing MSE retaining wall should incorporate a structural slab designed to span between the foundations without relying on support from the underlying soil.

7.2.4 Settlement Characteristics

Total foundation settlements are estimated to be less than 1 inch. Differential settlements are estimated to be less than ¾ inch between adjacent columns and across continuous footings over 40 feet. Settlements should be completed shortly after structural loads are applied.

7.2.5 Foundation Plan Review

NOVA should review the foundation plans to ascertain that the intent of the recommendations in this report has been implemented and that revised recommendations are not necessary as a result of changes after this report was completed.

7.2.6 *Foundation Excavation Observations*

A representative from NOVA should observe the foundation excavations prior to forming or placing reinforcing steel.

7.3. Interior Slabs-On-Grade

Interior concrete slabs-on-grade should be underlain by at least 2 feet of material with an EI of 50 or less. We recommend that conventional concrete slabs-on-grade floors be at least 5 inches thick and reinforced with at least No. 4 bars at 18 inches on center each way. To reduce the potential for excessive cracking, concrete slabs-on-grade should be provided with construction or 'weakened plane' joints at frequent intervals. The project structural engineer should design on-grade building slabs and joint spacing.

Moisture protection should be installed beneath slabs where moisture-sensitive floor coverings will be used. The project architect should review the tolerable moisture transmission rate of the proposed floor covering and specify an appropriate moisture protection system. Typically, a plastic vapor barrier is used. Minimum 15-mil plastic is recommended. The plastic should comply with ASTM E1745. The vapor barrier installation should comply with ASTM E1643. The slab can be placed directly on the vapor barrier.

7.4. Hardscape

Hardscape should be underlain by at least 2 feet of material with an EI of 50 or less. Exterior concrete slabs should be at least 4 inches thick and reinforced with at least No. 3 bars at 18 inches on center each way. Slabs should be provided with weakened plane joints. Joints should be placed in accordance with the American Concrete Institute (ACI) guidelines. The project architect should select the final joint patterns. A 1-inch maximum size aggregate mix is recommended for concrete for exterior slabs. The corrosion potential of on-site soils with respect to reinforced concrete will need to be taken into account in concrete mix design. Coarse and fine aggregate in concrete should conform to the "Greenbook" Standard Specifications for Public Works Construction.

7.5. Conventional Retaining Walls

Conventional retaining walls can be supported on spread footings. The recommendations for spread footings provided in the foundation section of this report are also applicable to conventional retaining walls.

The active earth pressure for the design of unrestrained retaining walls with level backfill can be taken as equivalent to the pressure of a fluid weighing 35 pcf. The at-rest earth pressure for the design of restrained retaining wall with level backfill can be taken as equivalent to the pressure of a fluid weighing 55 pcf. These values assume a granular and drained backfill condition. Higher lateral earth pressures would apply if walls retain clay soils. An additional 20 pcf should be added to these values for walls with 2:1 (h:v) sloping backfill. An increase in earth pressure equivalent to an additional 2 feet of retained soil can be used to account for surcharge loads from light traffic.

The above values do not include a factor of safety. Appropriate factors of safety should be incorporated into the design. If any other surcharge loads are anticipated, NOVA should be contacted for the necessary increase in soil pressure.

The seismic earth pressure can be taken as equivalent to the pressure of a fluid pressure weighing 13 pcf. This value is for level backfill and does not include a factor of safety. Appropriate factors of safety should be incorporated into the design. This pressure is in addition to the un-factored, active earth pressure. The total equivalent fluid pressure can be modeled as a triangular pressure distribution with the resultant acting at a height of $H/3$ up from the base of the wall, where H is the retained height of the wall. The passive pressure and bearing capacity can be increased by $\frac{1}{3}$ in determining the seismic stability of the wall.

Retaining walls should be provided with a backdrain to reduce the accumulation of hydrostatic pressure or be designed to resist hydrostatic pressure. Backdrains can consist of a 12-inch-wide zone of $\frac{3}{4}$ -inch crushed rock. The crushed rock should be separated from the adjacent soils using a non-woven filter fabric, such as Mirafi 140N or equivalent. A perforated pipe should be installed at the base of the backdrain and sloped to discharge to a suitable storm drain facility, or weep holes should be provided. As an alternative, a geocomposite drainage system such as Miradrain 6000 or equivalent placed behind the wall and connected to a suitable storm drain facility can be used. The project architect should provide dampproofing/waterproofing specifications and details. Figure 7-2 presents a typical conventional retaining wall backdrain detail. Note that the guidance provided on Figure 7-2 is conceptual. A variety of options are available to drain retaining walls.

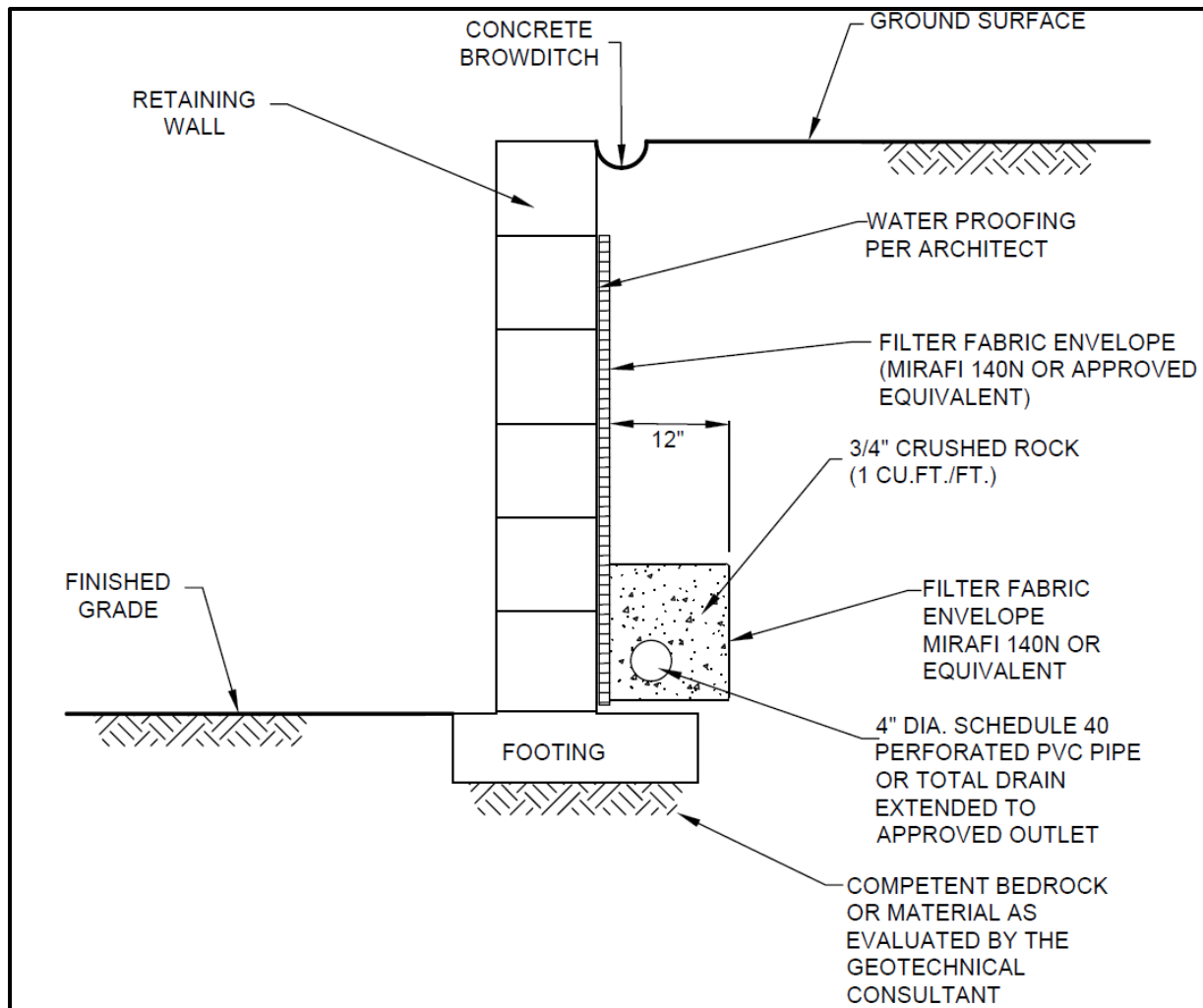


Figure 7-2. Typical Conventional Retaining Wall Backdrain Detail

Wall backfill should consist of granular, free-draining material having an expansion index of 20 or less. The backfill zone is defined by a 1:1 plane projected upward from the heel of the wall. Expansive or clayey soil should not be used. Additionally, backfill within 3 feet from the back of the wall should not contain rocks greater than 3 inches in dimension. Backfill should be compacted to at least 90% relative compaction. Backfill should not be placed until walls have achieved adequate structural strength. Compaction of wall backfill will be necessary to minimize settlement of the backfill and overlying settlement-sensitive improvements. However, some settlement should still be anticipated. Provisions should be made for some settlement of concrete slabs and pavements supported on backfill. Additionally, utilities supported on backfill should be designed to tolerate differential settlement.

7.6. Soil Nail Walls

NOVA anticipates that soil nails will be embedded in fill and weathered granitic rock. Table 7-1 summarizes the strength parameters and expected ultimate bond stresses of the materials.

Table 7-1. Soil Nail Wall Geotechnical Design Parameters

Material	Soil Design Parameters			Expected Ultimate Bond Stress (psf)
	Unit Weight (pcf)	Friction Angle (degrees)	Cohesion (psf)	
Fill	120	32	200	1000
Weathered Rock	125	45	400	5000

Expected bond stresses are an estimate. Bond stress capacity is influenced by soil and rock conditions, method of drilling, and grouting techniques. The soil nail designer should make an independent evaluation of bond stresses. The contractor should verify bond stress in the field prior to production nail installation. It is the contractor’s responsibility to obtain the required bond stress.

Soil nail walls should be free draining. We recommend that minimum 2-foot wide vertical geocomposite drainage strips be placed over the face of cuts and be collected at the base of the wall and tight-lined to an appropriate outlet. Weep holes are feasible but may result in staining and algae growth on the wall face and in the street gutter.

7.7. Pipelines

For level ground conditions, a passive earth pressure of 350 psf per foot of depth below the lowest adjacent final grade can be used to compute allowable thrust block resistance. A value of 150 psf per foot should be used below groundwater level, if encountered.

A modulus of soil reaction (E') of 1,500 psi can be used to evaluate the deflection of buried flexible pipelines. This value assumes that granular bedding material is placed adjacent to the pipe and is compacted to at least 90% relative compaction.

Pipe bedding as specified in the “Greenbook” Standard Specifications for Public Works Construction can be used. Bedding material should consist of clean sand having a sand equivalent not less than 20 and should extend to at least 12 inches above the top of pipe. Alternative materials meeting the intent of the bedding specifications are also acceptable. Samples of materials proposed for use as bedding should be provided to the engineer for inspection and testing before the material is imported for use on the project. The on-site materials are not expected to meet “Greenbook” bedding specifications. The pipe bedding material should be placed over the full width of the trench. After placement of the pipe, the bedding should be brought up uniformly on both sides of the pipe to reduce the potential for unbalanced loads. No voids or uncompacted areas should be left beneath the pipe haunches. Ponding or jetting the pipe bedding should not be allowed.

Where pipeline inclinations exceed 15%, cutoff walls are recommended in trench excavations. Additionally, we do not recommend that open graded rock be used for pipe bedding or backfill because of the potential for piping erosion. The recommended bedding is clean sand having a sand equivalent not less than 20 or 2-sack sand/cement slurry. If sand/cement slurry is used for pipe bedding to at least 1 foot over the top of the pipe, cutoff walls are not considered necessary. The need for cutoff walls should be further evaluated by the project civil engineer designing the pipeline.

7.8. Pavement Section Recommendations

The pavement support characteristics of the soils encountered during our investigation are considered high. An R-value of 50 was assumed for design of preliminary pavement sections. The actual R-value of the subgrade soils should be determined after grading, and the final pavement sections provided. Based on an R-value of 50, the following preliminary pavement structural sections are provided for the assumed Traffic Indexes on Table 7-2.

Table 7-2. AC and PCC Pavement Sections

Traffic Type	Traffic Index	Asphalt Concrete (inches)	Portland Cement Concrete (inches)
Parking Stalls	4.5	3 AC / 4 AB	6 PCC
Driveways	6.0	4 AC / 4 AB	6½ PCC
Heavy Traffic Areas	7.5	5 AC / 4 AB	7 PCC

AC: Asphalt Concrete

AB: Aggregate Base

PCC: Portland Cement Concrete

Subgrade preparation should be performed immediately prior to placement of the pavement section. The upper 12 inches of subgrade should be scarified, moisture conditioned to near optimum moisture content, and compacted to at least 95% relative compaction. All soft or yielding areas should be stabilized or removed and replaced with compacted fill or aggregate base. Aggregate base and asphalt concrete should conform to the Caltrans Standard Specifications or the “Greenbook” and should be compacted to at least 95% relative compaction. Aggregate base should have an R-value of not less than 78. All materials and methods of construction should conform to good engineering practices and the minimum local standards.

7.9. Corrosivity

Representative samples of the on-site soils were tested to evaluate corrosion potential. The test results are presented in Appendix C. The project design engineer can use the sulfate results in conjunction with ACI 318 to specify the water/cement ratio, compressive strength, and cementitious material types for concrete exposed to soil. The project design engineer should review and consider the chloride content in the project design. A corrosion engineer should be contacted to provide specific corrosion control recommendations.

8. CLOSURE

NOVA should review project plans and specifications prior to bidding and construction to check that the intent of the recommendations in this report has been incorporated. Observations and tests should be performed during construction. If the conditions encountered during construction differ from those anticipated based on the subsurface exploration program, the presence of personnel from our offices during construction will enable an evaluation of the exposed conditions and modifications of the recommendations in this report or development of additional recommendations in a timely manner.

NOVA should be advised of changes in the project scope so that the recommendations contained in this report can be evaluated with respect to the revised plans. Changes in recommendations will be verified in writing. The findings in this report are valid as of the date of this report. Changes in the condition of the site can, however, occur with the passage of time, whether they are due to natural processes or work on this or adjacent areas. In addition, changes in the standards of practice and government regulations can occur. Thus, the findings in this report may be invalidated wholly or in part by changes beyond our control. This report should not be relied upon after a period of two years without a review by us verifying the suitability of the conclusions and recommendations to site conditions at that time.

In the performance of our professional services, we comply with that level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions and in the same locality. The client recognizes that subsurface conditions may vary from those encountered at the boring locations and that our data, interpretations, and recommendations are based solely on the information obtained by us. NOVA will be responsible for those data, interpretations, and recommendations, but shall not be responsible for interpretations by others of the information developed. Our services consist of professional consultation and observation only, and no warranty whatsoever, express or implied, is made or intended in connection with the work performed or to be performed by us, or by our proposal for consulting or other services, or by our furnishing of oral or written reports or findings.

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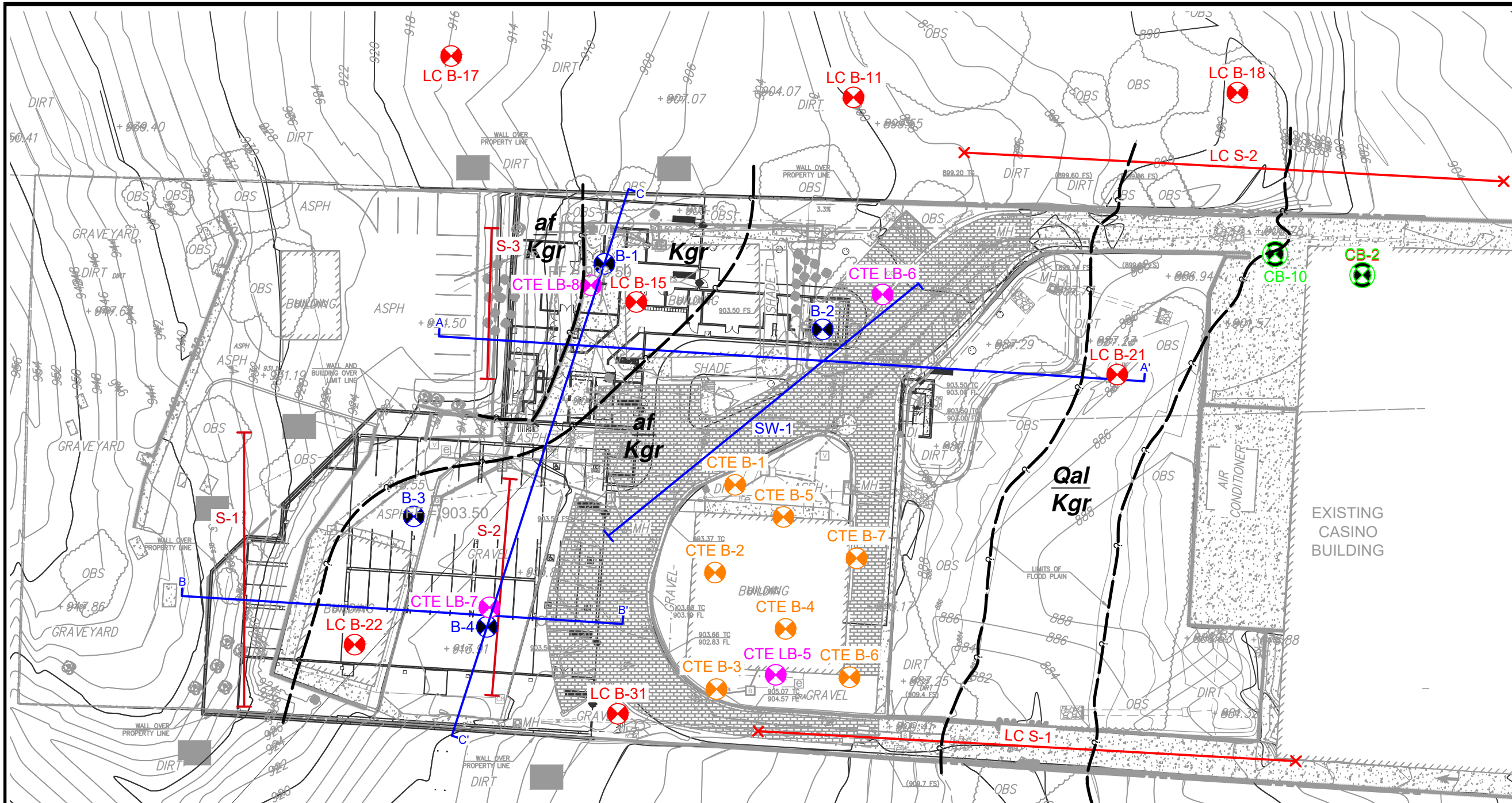


PLATES

PROPOSED JAMUL CASINO EXPANSION
 14145 CAMPO ROAD
 JAMUL, CALIFORNIA

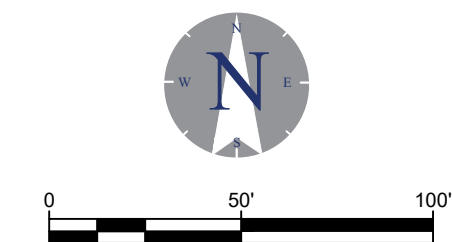
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 REVIEWED BY: WLV
 SCALE: 1"=50'
 DRAWING TITLE:

GEOTECHNICAL MAP



KEY TO SYMBOLS

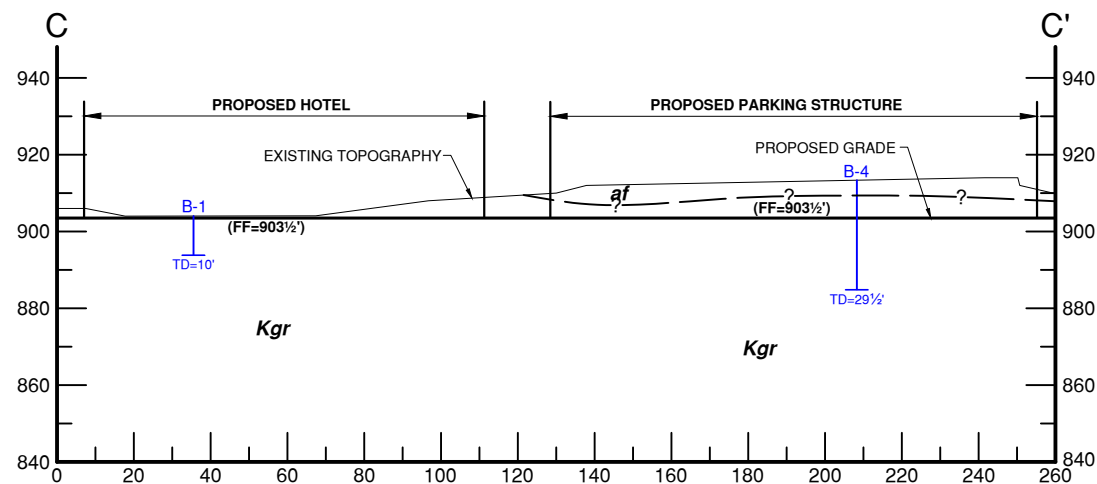
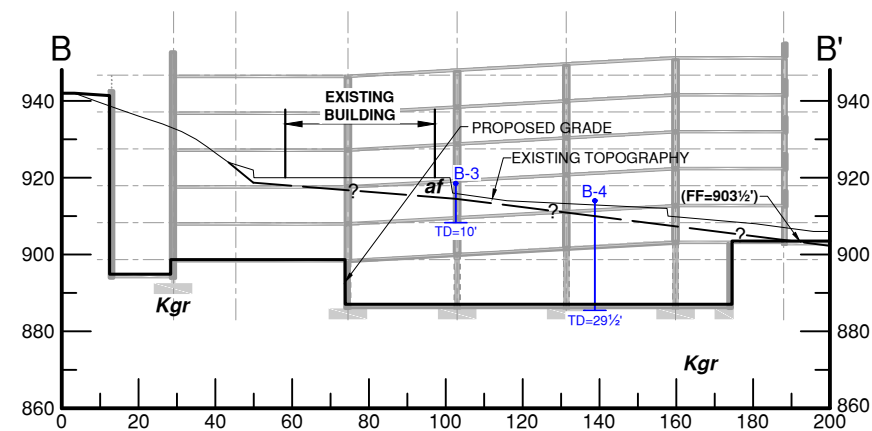
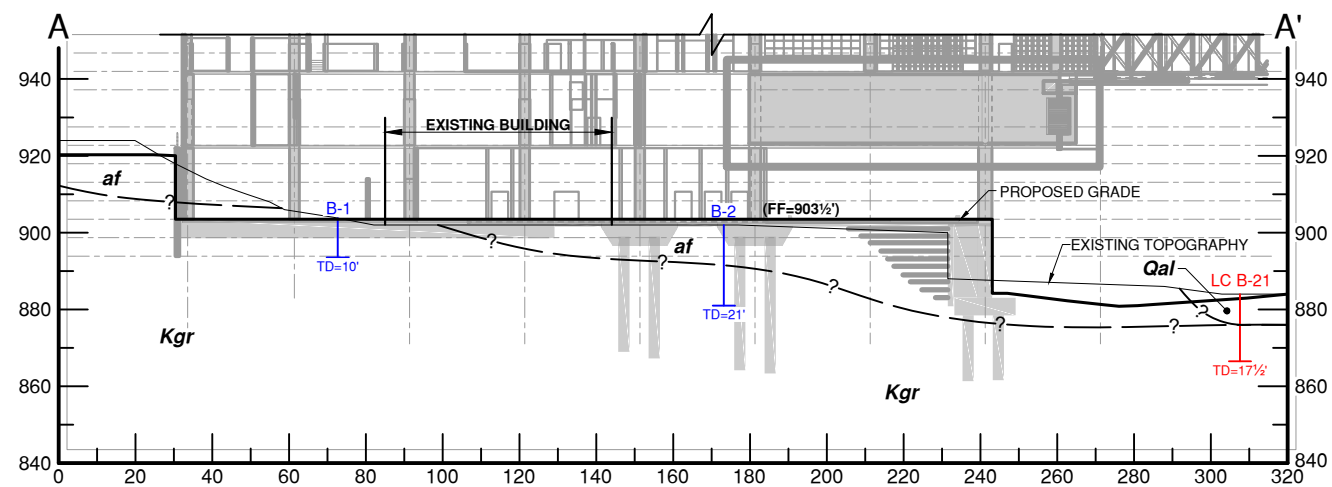
af	FILL	CB-10	CORE BORING (CTE, 2013)
Qal	ALLUVIUM	S-3	SEISMIC REFRACTION LINE (NOVA, 2022)
Kgr	GRANITIC ROCK	SW-1	SHEAR WAVE LINE (NOVA, 2022)
B-4	GEOTECHNICAL BORING (NOVA, 2022)	LC S-2	SEISMIC REFRACTION LINE (LC, 2001)
LC B-31	GEOTECHNICAL BORING (LC, 2001)	C-C'	GEOLOGIC CROSS-SECTION
CTE LB-8	GEOTECHNICAL BORING (CTE, 2011)	—?	GEOLOGIC CONTACT, QUERIED WHERE UNCERTAIN
CTE B-7	GEOTECHNICAL BORING (CTE, 2014)		



PROPOSED JAMUL CASINO EXPANSION
 14145 CAMPO ROAD
 JAMUL, CALIFORNIA

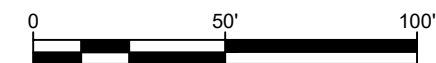
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REVIEWED BY:	MLV
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DRAWING TITLE:	

GEOLOGIC CROSS-SECTIONS
 A-A', B-B', & C-C'



KEY TO SYMBOLS

- af* FILL
- Qal* ALLUVIUM
- Kgr* GRANITIC ROCK
- B-4** GEOTECHNICAL BORING (NOVA, 2022)
- LC B-21** GEOTECHNICAL BORING (LC, 2001)
- ?— GEOLOGIC CONTACT, QUERIED WHERE UNCERTAIN
- — — EXISTING TOPOGRAPHY
- — — PROPOSED GRADE



Appendix I sub-appendices available upon request.

Appendix J

Environmental Noise Assessment



Environmental Noise Assessment

Jamul Casino Hotel and Event Center

Jamul Indian Village, California

September 23, 2022

Project #220407

Prepared for:



Jamul Indian Village Development Corporation

14191 Highway 94

Jamul, CA 91935

Prepared by:

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A blue ink signature of Luke Saxelby.



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INTRODUCTION

Saxelby Acoustics was retained to perform a noise study for the proposed Jamul Casino Hotel and Event Center Project.

The Jamul Indian Village Development Corporation, a wholly owned subsidiary and instrumentality of the Jamul Indian Village of California (Tribe), owns and operates the Jamul Casino situated on federally owned land that is held in trust for the Tribe and located at 14145 Campo Road, Jamul, CA 91935 (Reservation). The Jamul Casino is operated pursuant to the Tribal-State Compact between the State of California and the Jamul Indian Village of California (Compact). Section 11 of the Compact requires that, before beginning the construction of any new “Project” (as defined in Section 2.22 of the Compact), the Tribe must prepare a Tribal Environmental Impact Report (TEIR) analyzing the potentially significant off-Reservation environmental impacts of that Project. That environmental analysis is to be conducted pursuant to the process described in the Compact.

The Tribe has authorized the preparation of a TEIR for a potential project on the Reservation that would remodel the existing Jamul Casino to include a new event center and 226-room hotel (Proposed Project). The Proposed Project is a “Project” under the Compact and, therefore, requires a TEIR. This study has been prepared to assist with the noise section of the TEIR.

PROJECT DESCRIPTION

The Proposed Project consists of remodeling the existing Jamul Casino to include a new event center, 225-room hotel, and associated parking and infrastructure. Currently, the Jamul Casino occupies four levels above an eight-level parking garage. The main casino floor is the first building floor and there are three floor levels above main casino floor. The second floor is a partial level that provides a restaurant with veranda and allows circulation between the main casino floor and the fourth floor. The third floor provides kitchen and administrative office space. The fourth floor is a partial level that provides a rooftop lounge terrace.

The proposed remodeling would eliminate the second floor and the fourth floor and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation. The existing restaurant located on the second floor of the casino building would be relocated to the third floor with no changes in occupant capacity. Approximately 11,838 sf of existing office space on the eastern portion of the third floor would be relocated to an expanded area of the western portion of the third floor. The new event venue would result in a net increase of approximately 35,000 sf of enclosed, covered outdoor, and uncovered outdoor areas. No expansion of the gaming floor or increase in the number of slot machines or table games is proposed.

A new hotel and associated parking structure would be developed west of the existing casino building with pedestrian access to the casino building provided by a new bridge over Willow Creek, which bisects the Reservation immediately west of the existing casino building. The proposed 225-room hotel would consist of 16 stories including a banquet hall, a hotel lobby level with restaurant, a spa level with outdoor deck, 10 levels of guest rooms (Floors 5 through 14), a rooftop pool deck (Floor 16), and 2 levels of back-

of-house/mechanical (Floors 1 and 15). The height of the hotel tower would be at an elevation of approximately 1,128 feet above mean sea level (amsl), which is approximately 225 feet above ground level and 116 feet taller than the existing casino building. A new 6-story parking structure would be developed south of the new hotel building and would connect to the hotel lobby. The existing tribal community center and administration building would be removed to accommodate the footprint of the new hotel and parking structure. There are several options under consideration for relocation of the Tribal administration and community facilities, including utilizing space within the expanded third floor administrative areas of the casino, purchase of an off-site property with an existing building, or leasing existing office space within the region. The current administration building may be relocated to an existing concrete pad associated with a former fire department building on the 4-acre parcel north of the reservation and utilized for the tribal security department.

Construction activities associated with the Proposed Project are proposed to commence in 2023 and may take place over 18-24 months. Construction of the Proposed Project will take place in phases, with construction of the parking garage commencing first, followed by construction activities associated with the hotel tower. During the initial construction of the parking garage, equipment and materials staging will occur within the western area of the trust parcel, with the 4-acre parcel occasionally being utilized as a temporary staging area for deliveries and equipment. Following completion of 4-5 levels of the parking structure, construction of the hotel tower will commence, with the top level of the parking structure being utilized for equipment and materials laydown, and the lower levels of the garage being utilized for construction worker parking. If required, construction staging and employee parking may also occur within previously paved/disturbed off-reservation locations/parking lots, with shuttles potentially utilized to transport workers to the project site.

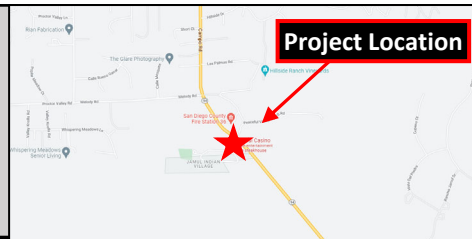
Figure 1 shows the project site plan. **Figure 2** shows an aerial photo of the project site and existing buildings.



0 150 300 Feet

Jamul Casino Hotel and Event Center
Jamul Indian Village, California

Figure 1
Project Site Plan








Jamul Casino Hotel and Event Center

Jamul Indian Village, California

Figure 2
Noise Measurement Sites

Legend

-  Project Site
-  Noise Measurement - Long Term
-  Noise Measurement Site - Short Term



Projection: UTM Zone 11 / WGS84 / meters
Rev. Date: 09/14/2022



ENVIRONMENTAL SETTING

Fundamentals of Acoustics

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second or Hertz (Hz).

Noise is a subjective reaction to different types of sounds. Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment.

The decibel scale is logarithmic, not linear. In other words, two sound levels 10-dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10-dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60 dBA sound.

Community noise is commonly described in terms of the ambient noise level, which is defined as the all-encompassing noise level associated with a given environment. A common statistical tool is the average, or equivalent, sound level (L_{eq}), which corresponds to a steady-state A weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The L_{eq} is the foundation of the composite noise descriptor, L_{dn} , and shows very good correlation with community response to noise.

The day/night average level (DNL or L_{dn}) is based upon the average noise level over a 24-hour day, with a +10-decibel weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

Table 1 lists several examples of the noise levels associated with common situations. **Appendix A** provides a summary of acoustical terms used in this report.

TABLE 1: TYPICAL NOISE LEVELS

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	--110--	Rock Band
Jet Fly-over at 300 m (1,000 ft.)	--100--	
Gas Lawn Mower at 1 m (3 ft.)	--90--	
Diesel Truck at 15 m (50 ft.), at 80 km/hr. (50 mph)	--80--	Food Blender at 1 m (3 ft.) Garbage Disposal at 1 m (3 ft.)
Noisy Urban Area, Daytime Gas Lawn Mower, 30 m (100 ft.)	--70--	Vacuum Cleaner at 3 m (10 ft.)
Commercial Area Heavy Traffic at 90 m (300 ft.)	--60--	Normal Speech at 1 m (3 ft.)
Quiet Urban Daytime	--50--	Large Business Office Dishwasher in Next Room
Quiet Urban Nighttime	--40--	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	--30--	Library
Quiet Rural Nighttime	--20--	Bedroom at Night, Concert Hall (Background)
	--10--	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	--0--	Lowest Threshold of Human Hearing

Source: Caltrans, Technical Noise Supplement, Traffic Noise Analysis Protocol. September, 2013.

Effects of Noise on People

The effects of noise on people can be placed in three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction
- Interference with activities such as speech, sleep, and learning
- Physiological effects such as hearing loss or sudden startling

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise.

Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it.

With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1-dBA cannot be perceived;
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference;
- A change in level of at least 5-dBA is required before any noticeable change in human response would be expected; and
- A 10-dBA change is subjectively heard as approximately a doubling in loudness, and can cause an adverse response.

Stationary point sources of noise – including stationary mobile sources such as idling vehicles – attenuate (lessen) at a rate of approximately 6-dB per doubling of distance from the source, depending on environmental conditions (i.e. atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility spread over many acres, or a street with moving vehicles, would typically attenuate at a lower rate.

EXISTING AND FUTURE NOISE AND VIBRATION ENVIRONMENTS

EXISTING NOISE RECEPTORS

Some land uses are considered more sensitive to noise than others. Land uses often associated with sensitive receptors generally include residences, schools, libraries, hospitals, and passive recreational areas. Sensitive noise receptors may also include threatened or endangered noise sensitive biological species, although many jurisdictions have not adopted noise standards for wildlife areas. Noise sensitive land uses are typically given special attention in order to achieve protection from excessive noise.

Sensitivity is a function of noise exposure (in terms of both exposure duration and insulation from noise) and the types of activities involved. In the vicinity of the project site, sensitive land uses include existing single-family (zoned rural residential) uses located approximately 0.25 miles north and west of the project site and single-family (zoned agricultural) uses located approximately 0.25 miles northeast of the site.

EXISTING GENERAL AMBIENT NOISE LEVELS

EXISTING AMBIENT NOISE LEVELS

The existing noise environment in the project area is defined primarily by vehicle traffic on Campo Road (SR-94) and aircraft overflights to/from the San Diego International Airport. Occasional event noise from the existing Jamul Casino rooftop event center is also audible at times, primarily at locations east of the event center.

To quantify the existing ambient noise environment on the project site, Saxelby Acoustics conducted a continuous noise measurement survey. The noise measurement locations are shown on **Figure 2**. A summary of the noise level measurement survey is provided in **Table 2**. **Appendix B** contains the complete results of the noise monitoring.

The sound level meters were programmed to record the maximum, median, and average noise levels at each site during the survey. The maximum value, denoted L_{max} , represents the highest noise level measured. The average value, denoted L_{eq} , represents the energy average of all of the noise received by the sound level meter microphone during the monitoring period. The median value, denoted L_{50} , represents the sound level exceeded 50 percent of the time during the monitoring period.

Larson Davis Laboratories (LDL) Model 820 and 831 precision integrating sound level meters were used for the ambient noise level measurement survey. The meters were calibrated before and after use with a LDL Model CAL-200 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).

TABLE 2: SUMMARY OF EXISTING BACKGROUND NOISE MEASUREMENT DATA

Site	Date	Average Measured Hourly Noise Levels, dBA						
		L _{dn}	Daytime (7:00 am - 10:00 pm)			Nighttime (10:00 pm – 7:00 am)		
			L _{eq}	L ₅₀	L _{max}	L _{eq}	L ₅₀	L _{max}
Continuous 24-hour Noise Measurement Site								
LT-1	Saturday/Sunday April 16-17, 2022	52	53	38	72	40	28	67
LT-2	Saturday/Sunday April 16-17, 2022	64	61	58	79	57	48	72
LT-3	Saturday/Sunday April 16-17, 2022	49	48	42	63	40	34	57
ST-1	Saturday (4/16/22) 4:35 p.m.	N/A	50	41	68	N/A	N/A	N/A
	Saturday (4/16/22) 6:12 p.m.*	N/A	55	38	81	N/A	N/A	N/A
	Saturday (4/16/22) 8:18 p.m.*	N/A	50	33	71	N/A	N/A	N/A
ST-2	Saturday (4/16/22) 5:14 p.m.	N/A	46	41	59	N/A	N/A	N/A
	Saturday (4/16/22) 5:29 p.m.*	N/A	46	42	62	N/A	N/A	N/A
	Saturday (4/16/22) 8:37 p.m.*	N/A	42	39	58	N/A	N/A	N/A
<p>*Data collected during concert event at existing rooftop event center. Concert ran from approximately 5:30 p.m. to 9:00 p.m. on Saturday, April 16, 2022. Source: Saxelby Acoustics – 2022</p>								

FUTURE TRAFFIC NOISE ENVIRONMENT AT OFF-SITE RECEPTORS

Off-Site Traffic Noise Impact Assessment Methodology

To assess noise impacts due to project-related traffic increases on the local roadway network, traffic noise levels are predicted at sensitive receptors with and without the proposed project for existing and cumulative traffic conditions.

Existing and cumulative noise levels due to traffic are calculated using the Federal Highway Administration Highway Traffic Noise Prediction Model (FHWA RD-77-108). The model is based upon the Calveno reference noise factors for automobiles, medium trucks and heavy trucks, with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site.

The FHWA model was developed to predict hourly L_{eq} values for free-flowing traffic conditions. To predict traffic noise levels in terms of L_{dn} , it is necessary to adjust the input volume to account for the day/night distribution of traffic.

Project trip generation volumes were provided by the traffic engineer, truck usage was obtained from Caltrans, and vehicle speeds on the local area roadways were estimated from field observations. The predicted increases in traffic noise levels on the local roadway network for Existing and Cumulative conditions which would result from the project are provided in terms of L_{dn} .

Traffic noise levels are predicted at the sensitive receptors located at the closest typical setback distance along each project-area roadway segment.

Table 3 summarizes the modeled traffic noise levels at the nearest sensitive receptors along each roadway segment in the Project area. **Appendix C** provides the complete inputs and results of the FHWA traffic modeling.

TABLE 3: PREDICTED EXTERIOR NOISE LEVEL (dBA CNEL/ L_{DN}) AT CLOSEST SENSITIVE RECEPTORS

Condition	SR-94
Existing	64.5 dBA
Existing + Project	65.0 dBA
Change	+0.5 dBA
Cumulative	67.2 dBA
Cumulative + Project	67.5 dBA
Change	+0.3 dBA

Based upon the **Table 3** data, the proposed project is predicted to result in an increase in a maximum traffic noise level increase 0.5 dBA.

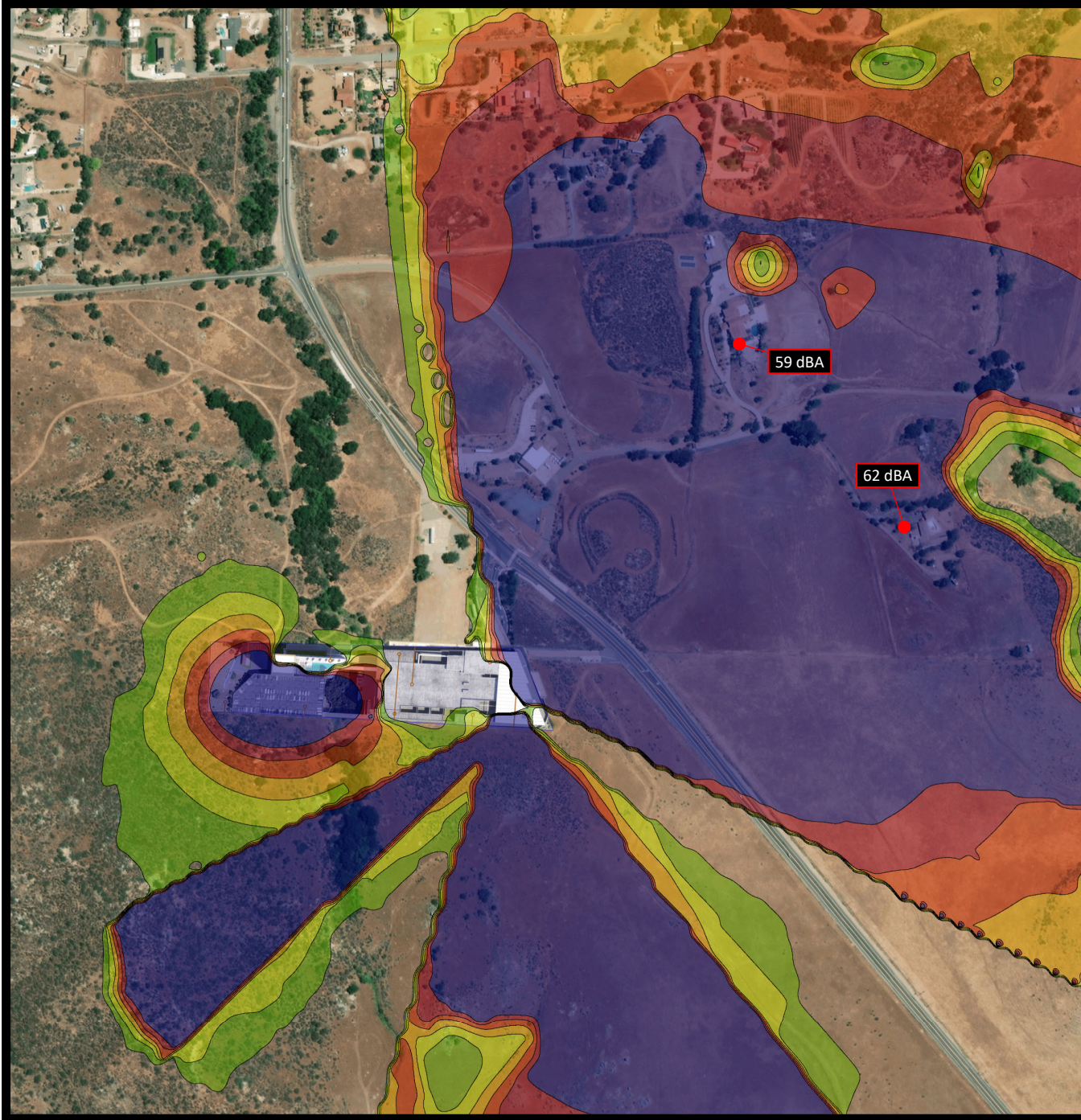
EVALUATION OF PROJECT-GENERATED NOISE AT RESIDENTIAL RECEPTORS

In addition to increased site traffic, the new hotel parking garage, hotel rooftop pool, and expanded event center are the primary noise sources for this project. This analysis considers each of these primary noise sources.

The following is a list of assumptions used for the noise modeling. The data used is based upon a combination of manufacturer's provided data and Saxelby Acoustics data from similar operations.

- Rooftop Pool:** Saxelby Acoustics used data from a large (46,000 sf) pool deck to estimate noise generation by the proposed 14,608 sf rooftop pool deck located on the 16th floor of the hotel. The sound level for the 46,000 sf pool deck was 61 dBA L_{eq} at a distance of 200 feet.
- Hotel Parking Garage:** Saxelby Acoustics modeled the noise level increase due to construction of the new 6-story 290 space parking lot. The analysis assumes that the parking garage could fill or empty in a peak hour.
- Event Center:** Saxelby Acoustics assumed a sound system output of 90 dBA L_{eq} at 100 feet for the proposed covered outdoor event center to be located on the third floor. This level of sound is considered typical of a large concert event with an A-list type performer.

Saxelby Acoustics used the SoundPLAN noise prediction model. Inputs to the model included sound power levels for the proposed event center, existing and proposed mechanical equipment, existing and proposed buildings, terrain type, and locations of sensitive receptors. These predictions are made in accordance with International Organization for Standardization (ISO) standard 9613-2:1996 (Acoustics – Attenuation of sound during propagation outdoors). ISO 9613 is the most commonly used method for calculating exterior noise propagation. **Figure 3** shows the proposed project noise contours.



Jamul Casino Hotel and Event Center

Jamul Indian Village, California

Figure 3

Project Stationary Noise Contours
(dBA L_{eq})

Noise Level, dB(A)

45 <	≤ 47
47 <	≤ 49
49 <	≤ 51
51 <	≤ 53
53 <	≤ 55
55 <	

Scale 1:500



CONSTRUCTION NOISE ENVIRONMENT

During the construction of the proposed project noise from construction activities would temporarily add to the noise environment in the project vicinity. As shown in **Table 4**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dB at a distance of 50 feet.

TABLE 4: CONSTRUCTION EQUIPMENT NOISE

Type of Equipment	Maximum Level, dBA at 50 feet
Auger Drill Rig	84
Backhoe	78
Compactor	83
Compressor (air)	78
Concrete Saw	90
Dozer	82
Dump Truck	76
Excavator	81
Generator	81
Jackhammer	89
Pneumatic Tools	85

Source: *Roadway Construction Noise Model User's Guide*. Federal Highway Administration. FHWA-HEP-05-054. January 2006.

CONSTRUCTION VIBRATION ENVIRONMENT

Table 5 shows the typical vibration levels produced by construction equipment.

TABLE 5: VIBRATION LEVELS FOR VARIOUS CONSTRUCTION EQUIPMENT

Type of Equipment	Peak Particle Velocity at 25 feet (inches/second)	Peak Particle Velocity at 50 feet (inches/second)	Peak Particle Velocity at 100 feet (inches/second)
Large Bulldozer	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Small Bulldozer	0.003	0.001	0.000
Auger/drill Rigs	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Vibratory Hammer	0.070	0.025	0.009
Vibratory Compactor/roller	0.210 (Less than 0.20 at 26 feet)	0.074	0.026

Source: *Transit Noise and Vibration Impact Assessment Guidelines*. Federal Transit Administration. May 2006.

REGULATORY CONTEXT

Relevant regulations for the off-Reservation environment are discussed below.

FEDERAL

There are no federal regulations related to noise that apply to the Proposed Project. Federal regulations establish noise limits for medium and heavy trucks (more than 4.5 tons, gross vehicle weight rating) under 40 CFR Part 205, Subpart B. The federal truck pass-by noise standard is 80 dB at 15 meters from the vehicle pathway centerline. These controls are implemented through regulatory controls on truck manufacturers.

STATE




There are no state regulations related to noise that apply to the Proposed Project. The California Code of Regulations has guidelines for evaluating the compatibility of various off-Reservation land uses as a function of community noise exposure. The State also establishes noise limits for vehicles licensed to operate on public roads. For heavy trucks, the State pass-by standard is consistent with the federal limit of 80 dB. The State pass-by standard for light trucks and passenger cars (less than 4.5 tons, gross vehicle rating) is also 80 dB at 15 meters from the centerline. These standards are implemented through controls on vehicle manufacturers and by legal sanction of vehicle operators by State and local law enforcement officials

LOCAL

San Diego County General Plan

The Noise Element of the General Plan identifies noise and land use compatibility standards for various land uses. The land use compatibility table is reproduced in **Table 6** below:

TABLE 6: NOISE COMPATIBILITY GUIDELINES (TABLE N-1)

Land Use Category		Exterior Noise Level (CNEL)					
		55	60	65	70	75	80
A	Residential—single family residences, mobile homes, senior housing, convalescent homes						
B	Residential—multi-family residences, mixed-use (commercial/residential)						
C	Transient lodging—motels, hotels, resorts						
D*	Schools, churches, hospitals, nursing homes, child care facilities						
E*	Passive recreational parks, nature preserves, contemplative spaces, cemeteries						
F*	Active parks, golf courses, athletic fields, outdoor spectator sports, water recreation						
G*	Office/professional, government, medical/dental, commercial, retail, laboratories						
H*	Industrial, manufacturing, utilities, agriculture, mining, stables, ranching, warehouse, maintenance/repair						
	ACCEPTABLE—Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal construction, without any special noise insulation requirements.						
	CONDITIONALLY ACCEPTABLE—New construction or development should be undertaken only after a detailed noise analysis is conducted to determine if noise reduction measures are necessary to achieve acceptable levels for land use. Criteria for determining exterior and interior noise levels are listed in Table N-2, Noise Standards. If a project cannot mitigate noise to a level deemed Acceptable, the appropriate county decision-maker must determine that mitigation has been provided to the greatest extent practicable or that extraordinary circumstances exist.						
	UNACCEPTABLE—New construction or development shall not be undertaken.						

* Denotes facilities used for part of the day; therefore, an hourly standard would be used rather than CNEL (refer to Table N-2).

The County’s General Plan Noise Element also provides recommendations for maximum noise levels for various uses. These recommendations are reproduced in **Table 7** below:

TABLE 7: NOISE STANDARDS (TABLE N-2)

1. The exterior noise level (as defined in item 3) standard for Category A shall be 60 CNEL, and the interior noise level standard for indoor habitable room shall be 45 CNEL.
2. The exterior noise level standard for Categories B and C shall be 65 CNEL, and the interior noise level standard for indoor habitable rooms shall be 45 CNEL.
3. The exterior noise level standard Categories D and G shall be 65 CNEL and the interior noise level standard shall be 50 dBA L_{eq} (one hour average).
4. For single-family detached dwelling units, “exterior noise level” is defined as the noise level measured at an outdoor living area which adjoins and is on the same lot as the dwelling, and which contains at least the following minimum net lot area: (i) for lots less than 4,000 square feet in area, the exterior area shall include 400 square feet, (ii) for lots between 4,000 square feet to 10 acres in area, the exterior area shall include 10 percent of the lot area; (iii) for lots over 10 acres in area, the exterior area shall include 1 acre.
5. For all other residential land uses, "exterior noise level" is defined as noise measured at exterior areas which

are provided for private or group usable open space purposes. "Private Usable Open Space" is defined as usable open space intended for use of occupants of one dwelling unit, normally including yards, decks, and balconies. When the noise limit for Private Usable Open Space cannot be met, then a Group Usable Open Space that meets the exterior noise level standard shall be provided. "Group Usable Open Space" is defined as usable open space intended for common use by occupants of a development, either privately owned and maintained or dedicated to a public agency, normally including swimming pools, recreation courts, patios, open landscaped areas, and greenbelts with pedestrian walkways and equestrian and bicycle trails, but not including off-street parking and loading areas or driveways.

6. For non-residential noise sensitive land uses, exterior noise level is defined as noise measured at the exterior area provided for public use.

7. For noise sensitive land uses where people normally do not sleep at night, the exterior and interior noise standard may be measured using either CNEL or the one-hour average noise level determined at the loudest hour during the period when the facility is normally occupied.

8. The exterior noise standard does not apply for land uses where no exterior use area is proposed or necessary, such as a library.

9. For Categories E and F the exterior noise level standard shall not exceed the limit defined as "Acceptable" in Table N-1 or an equivalent one-hour noise standard.

Note: Exterior Noise Level computability guidelines for Land Use Categories A-H are identified in Table N-1, Noise Compatibility Guidelines.

Policy N-3.1 Groundborne Vibration. Use the Federal Transit Administration and Federal Railroad Administration guidelines, where appropriate, to limit the extent of exposure that sensitive uses may have to groundborne vibration from trains, construction equipment, and other sources.

Policy N-4.6 Road Improvement Projects. For County road improvement projects, evaluate the proposed project against ambient noise levels to determine whether the project would increase ambient noise levels by more than three decibels. If so, apply the limits in the noise standards listed in Table N-2 for noise sensitive land uses that may be affected by the increased noise levels. For federally-funded roadway construction projects, use the limits in the applicable Federal Highway Administration Standards.

County of San Diego Municipal Code

The County of San Diego Municipal Code Section 36.404 establishes general sound limits for stationary noise sources. The relevant criteria are reproduced below:

Sec. 36.404. General Sound Level Limits.

(a) Except as provided in section 36.409 of this chapter, it shall be unlawful for any person to cause or allow the creation of any noise, which exceeds the one-hour average sound level limits in Table 36.404, when the one-hour average sound level is measured at the property line of the property on which the noise is produced or at any location on a property that is receiving the noise.

TABLE 8: SOUND LEVEL LIMITS IN DECIBELS (dBA)

Zone	Time	One-Hour Average Sound Level Limits (dBA)
(1) RS, RD, RR, RMH, A70, A72, S80, S81, S90, S92, RV, and RU with a General Plan Land Use Designation density of less than 10.9 dwelling units per acre.	7 a.m. to 10 p.m.	50
	10 p.m. to 7 a.m.	45
(2) RRO, RC, RM, S86, FB-V5, RV and RU with a General Plan Land Use Designation density of 10.9 or more dwelling units per acre.	7 a.m. to 10 p.m.	55
	10 p.m. to 7 a.m.	50
(3) S94, FB-V4, AL-V2, AL-V1, AL-CD, RM-V5, RM-V4, RM-V3, RM-CD and all commercial zones.	7 a.m. to 10 p.m.	60
	10 p.m. to 7 a.m.	55
(4) FB-V1, FB-V2, RM-V1, RM-V2	7 a.m. to 7 p.m.	60
	7 p.m. to 10 p.m.	55
FB-V1, RM-V2	10 p.m. to 7 a.m.	55
FB-V2, RM-V1	10 p.m. to 7 a.m.	50
FB-V3	7 a.m. to 10 p.m.	70
	10 p.m. to 7 a.m.	65
(5) M50, M52, and M54	Anytime	70
		70
(6) S82, M56, and M58.	Anytime	75
(7) S88 (see subsection (c) below)		

Source: County of San Diego Municipal Code Table 36.404

(c) S88 zones are Specific Planning Areas which allow different uses. The sound level limits in Table 36.404 above that apply in an S88 zone depend on the use being made of the property. The limits in Table 36.404, subsection (1) apply to property with a residential, agricultural or civic use. The limits in subsection (3) apply to property with a commercial use. The limits in subsection (5) apply to property with an industrial use that would only be allowed in an M50, M52 or M54 zone. The limits in subsection (6) apply to all property with an extractive use or a use that would only be allowed in an M56 or M58 zone.

(d) If the measured ambient noise level exceeds the applicable limit in Table 36.404, the allowable one-hour average sound level shall be the one-hour average ambient noise level, plus three decibels. The ambient noise level shall be measured when the alleged noise violation source is not operating.

(e) The sound level limit at a location on a boundary between two zones is the arithmetic mean of the respective limits for the two zones. The one-hour average sound level limit applicable to extractive industries, however, including but not limited to borrow pits and mines, shall be 75 decibels at the property line regardless of the zone in which the extractive industry is located.

Sec. 36.408. Hours of Operation of Construction Equipment.

Except for emergency work, it shall be unlawful for any person to operate or cause to be operated, construction equipment:

(a) Between 7 p.m. and 7 a.m.

(b) On a Sunday or a holiday. For purposes of this section, a holiday means January 1st, the last Monday in May, July 4th, the first Monday in September, the fourth Thursday in November and December 25th. A person may, however, operate construction equipment on a Sunday or holiday between the hours of 10 a.m. and 5 p.m. at the person's residence or for the purpose of constructing a residence for himself or herself, provided that the operation of construction equipment is not carried out for financial consideration or other consideration of any kind and does not violate the limitations in sections 36.409 and 36.410.

(Amended by Ord. No. 9962 (N.S.), effective 1-9-09; amended by Ord. No. 10364 (N.S.), effective 1-2-15)

Sec. 36.409. Sound Level Limitations on Construction Equipment.

Except for emergency work, it shall be unlawful for any person to operate construction equipment or cause construction equipment to be operated, that exceeds an average sound level of 75 decibels for an eight-hour period, between 7 a.m. and 7 p.m., when measured at the boundary line of the property where the noise source is located or on any occupied property where the noise is being received.

(Amended by Ord. No. 9700 (N.S.), effective 2-4-05; amended by Ord. No. 9962 (N.S.), effective 1-9-09)

SEC. 36.410. SOUND LEVEL LIMITATIONS ON IMPULSIVE NOISE.

In addition to the general limitations on sound levels in section 36.404 and the limitations on construction equipment in section 36.409, the following additional sound level limitations shall apply:

(a) Except for emergency work or work on a public road project, no person shall produce or cause to be produced an impulsive noise that exceeds the maximum sound level shown in Table 36.410A, when measured at the boundary line of the property where the noise source is located or on any occupied property where the noise is received, for 25 percent of the minutes in the measurement period, as described in subsection (c) below. The maximum sound level depends on the use being made of the occupied property. The uses in Table 36.410A are as described in the County Zoning Ordinance.

TABLE 9: MAXIMUM SOUND LEVEL (IMPULSIVE) MEASURED AT OCCUPIED PROPERTY

Occupied Property Use	Decibels (dBA)
Residential, village zoning or civic use	82
Agricultural, commercial or industrial use	85

Source: County of San Diego Municipal Code Table 36.410A

(b) Except for emergency work, no person working on a public road project shall produce or cause to be produced an impulsive noise that exceeds the maximum sound level shown in Table 36.410B, when measured at the boundary line of the property where the noise source is located or on any occupied property where the noise is received, for 25 percent of the minutes in the measurement period, as

described in subsection (c) below. The maximum sound level depends on the use being made of the occupied property. The uses in Table 36.410B are as described in the County Zoning Ordinance.

TABLE 10: MAXIMUM SOUND LEVEL (IMPULSIVE) MEASURED AT OCCUPIED PROPERTY FOR PUBLIC ROAD PROJECTS

Occupied Property Use	Decibels (dBA)
Residential, village zoning or civic use	85
Agricultural, commercial or industrial use	90

Source: County of San Diego Municipal Code Table 36.410B

(c) The minimum measurement period for any measurements conducted under this section shall be one hour. During the measurement period a measurement shall be conducted every minute from a fixed location on an occupied property. The measurements shall measure the maximum sound level during each minute of the measurement period. If the sound level caused by construction equipment or the producer of the impulsive noise exceeds the maximum sound level for any portion of any minute, it will be deemed that the maximum sound level was exceeded during that minute.

(Added by Ord. No. 9962 (N.S.), effective 1-9-09)

Criteria for Acceptable Vibration

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person’s perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration measures in terms of peak particle velocities in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of peak particle velocities.

Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. **Table 11**, which was developed by Caltrans, shows the vibration levels which would normally be required to result in damage to structures. The vibration levels are presented in terms of peak particle velocity in inches per second. The **Table 11** data indicate that the threshold for architectural damage to structures is 0.20 in/sec p.p.v. A threshold of 0.20 in/sec p.p.v. is considered to be a reasonable threshold for short-term construction projects.

TABLE 11: EFFECTS OF VIBRATION ON PEOPLE AND BUILDINGS

Peak Particle Velocity		Human Reaction	Effect on Buildings
mm/second	in/second		
0.15-0.30	0.006-0.019	Threshold of perception; possibility of intrusion	Vibrations unlikely to cause damage of any type
2.0	0.08	Vibrations readily perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
2.5	0.10	Level at which continuous vibrations begin to annoy people	Virtually no risk of “architectural” damage to normal buildings
5.0	0.20	Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations)	Threshold at which there is a risk of “architectural” damage to normal dwelling - houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize “architectural” damage
10-15	0.4-0.6	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause “architectural” damage and possibly minor structural damage

Source: *Transportation Related Earthborne Vibrations*. Caltrans. TAV-02-01-R9601. February 20, 2002.

IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

The following checklist is used to evaluate off-Reservation environmental noise impacts.

Would the project result in:

- a. Exposure of off-reservation persons to noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- b. Exposure of off-reservation persons to excessive groundborne vibration or groundborne noise levels?
- c. A substantial permanent increase in ambient noise levels in the off-reservation vicinity of the project?
- d. A substantial temporary or periodic increase in ambient noise levels in the off-reservation vicinity of the project?

Determination of a Significant Increase in Noise Levels

TEMPORARY CONSTRUCTION NOISE IMPACTS

For short-term noise associated with Project construction, Saxelby Acoustics recommends use of the Caltrans increase criteria of 12 dBA (Caltrans, 2020).

OPERATIONAL IMPACTS

Policy N-4.6 of the San Diego County General Plan Noise Element establishes a 3 dBA ambient noise level increase as the threshold of significance of County road improvement projects. Therefore, this analysis will also apply a 3 dBA CNEL/L_{dn} test of significance to traffic noise increases associated with the proposed project. Additionally, the project should not cause traffic noise to exceed the San Diego County General Plan Noise Element 60 dBA CNEL exterior noise standard applied to residential uses.

For stationary (non-transportation) noise increases, the San Diego County General Plan and Noise Ordinance do not specify a threshold of significance. Considering that a 3 dBA change is typically considered to be barely perceptible, Saxelby Acoustics recommends 5 dBA as a threshold for evaluating non-transportation noise level increases. 5 dBA is typically accepted the point at which a noticeable change in human response would be expected. Additionally, the project should not cause stationary noise levels to exceed the San Diego County Noise Ordinance standards of 50 dBA hourly average (L_{eq}) during daytime (7am-10pm) hours and 45 dBA L_{eq} during nighttime (10 pm to 7 am) hours.

VIBRATION IMPACTS

Policy N-3.1 of the San Diego County General Plan Noise Element establishes the Federal Transit Administration and Federal Railroad Administration (FTA) guidelines for limiting groundborne vibration from trains, construction equipment, and other sources at sensitive receptors. The proposed project would not create substantial sources of operational ground vibration. However, construction activities could generate substantial groundborne vibrations. Therefore, the FTA construction vibration limit of 0.2 in/sec Peak Particle Velocity (PPV) for non-engineered timber and masonry buildings would be the most applicable standard for the nearby sensitive receptors. This is also consistent with the Caltrans guidelines outlined in **Table 11**.

PROJECT-SPECIFIC IMPACTS AND MITIGATION MEASURES

IMPACT 1: **WOULD THE PROJECT RESULT IN EXPOSURE OFF-RESERVATION PERSONS TO NOISE LEVELS IN EXCESS OF STANDARDS ESTABLISHED IN THE LOCAL GENERAL PLAN OR NOISE ORDINANCE, OR APPLICABLE STANDARDS OF OTHER AGENCIES?**

Traffic Noise Levels

The maximum increase in traffic noise at the nearest sensitive receptor is predicted to be 0.5 dBA CNEL/Ldn as shown in **Table 3**. This is less than the 3 dBA test of significance. Additionally, the proposed project is not predicted to cause existing receptors to be exposed to exterior noise levels exceeding 60 dBA CNEL.

It should be noted that existing receptors located along SR-94 are predicted to be exposed to exterior noise levels of 64.5 dBA under existing conditions and 67.2 dBA under cumulative conditions without the project. With the project, exterior noise exposure would increase to 65.0 dBA under existing conditions and 67.5 dBA under cumulative conditions with the proposed project. Therefore, the nearest receptors located along SR-94 are currently, and will remain, exposed to exterior noise levels exceeding the County's 60 dBA CNEL noise standard with and without the project. The project's contribution to increased noise levels is only 0.5 dBA which does not exceed the 3 dBA test of significance.

Therefore, this portion of the impact is less than significant.

Operational Noise at Sensitive Receptors

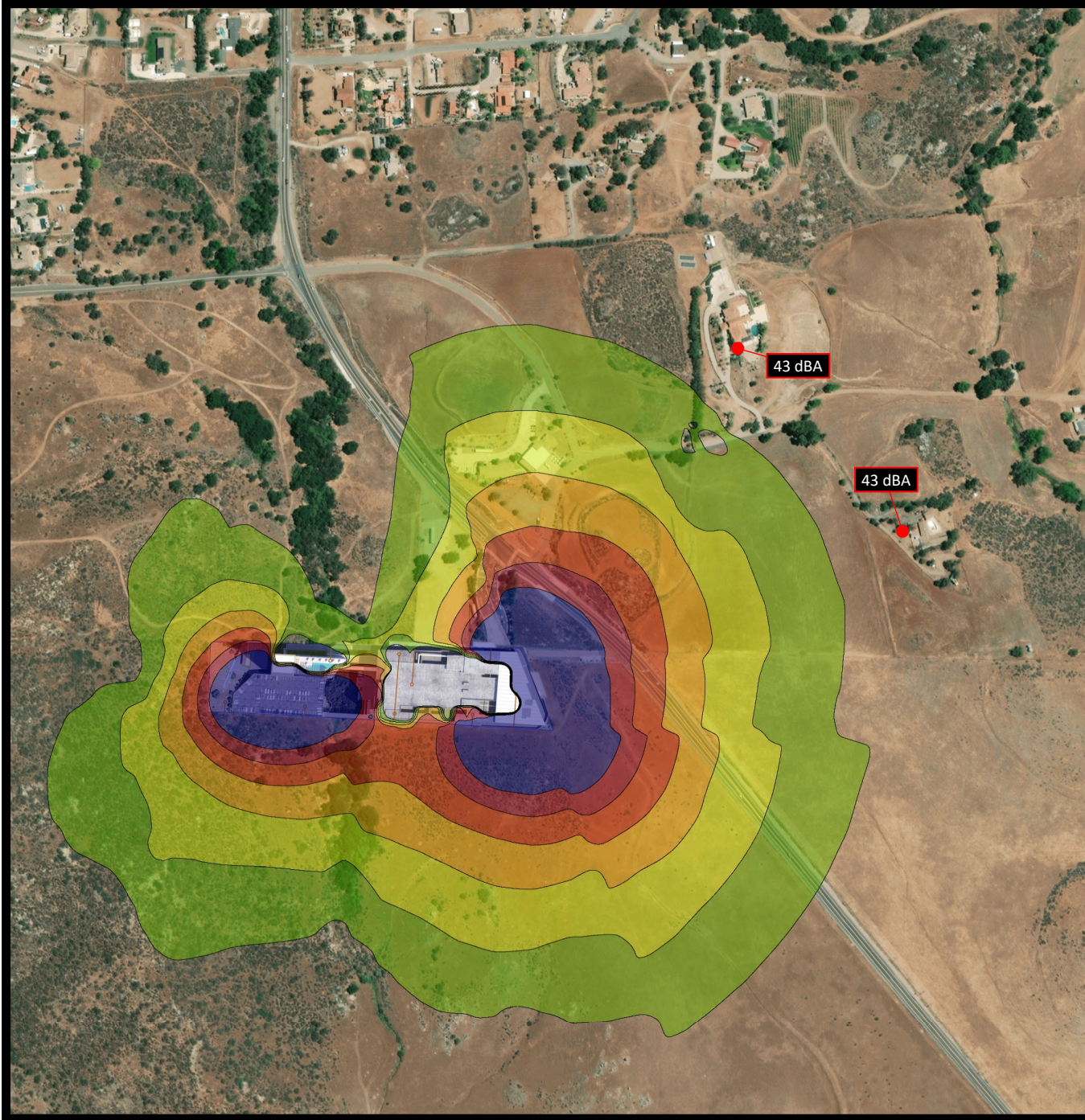
Based upon **Figure 3**, project-related noise levels are expected to be up to 62 dBA L_{eq} at the nearest sensitive receptors. This would exceed the County's daytime 50 dBA L_{eq} and nighttime 45 dBA L_{eq} noise standards. The noise levels are due primarily to special event noise from the expanded event center.

Therefore, impacts resulting from increased stationary noise would be considered ***significant***.

In order to reduce exterior noise levels from the proposed project to less than significant Saxelby Acoustics analyzes potential mitigation measures for the event center. As currently designed, the facility has a high roof deck with a glass wall around the perimeter. This design would do little to control noise from leaving the facility to the east. In order to achieve noise control during concert events, the gap between the roof deck and the floor of the event center needs to be enclosed. This could be accomplished by using an operable wall system that could be closed to concert events. An operable wall system, such as NanaWall would have dual pane window panels that could be slid into a closed position during concerts but left open during events without amplified sound. Acoustical curtains could potentially be used for this as well.

In order to model the event center as an enclosed facility, a minimum sound transmission class (STC) rating of 26 was assumed for all exterior roof/wall assemblies. As noted, this could be accomplished with the use of typical exterior wall/roof assemblies, glazing, operable walls (NanaWall, or similar), sound control curtains, etc. as long as the facility is enclosed during special events which include use of amplified sound. **Figure 4** shows the resulting noise levels with MM N-1.

It should be noted that a typical stucco wall assembly has an STC rating of approximately 40, a typical commercial roof deck has an STC rating of approximately 35-40, and a typical commercial dual glazed window or glass wall has an STC rating of 26, or higher, and the NanaWall operable wall system has STC ratings as high as 43. Therefore, achieving the STC 26 requirement would be feasible using typical building construction methods.



Jamul Casino Hotel and Event Center

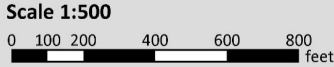
Jamul Indian Village, California

Figure 4

Post Mitigation Project-Related Stationary Noise Contours (dBA L_{eq})

Noise Level, dB(A)

45 <	≤	47
47 <	≤	49
49 <	≤	51
51 <	≤	53
53 <	≤	55
55 <		



Mitigation Measure(s)

MM: N-1A *The event center should be designed to provide a minimum sound transmission class (STC) rating of 26 for all exterior wall/roof assemblies during special events which include use of amplified sound. This could be accomplished with the use of typical exterior wall/roof assemblies, glazing, operable walls, etc. The tribe shall engage a qualified acoustical engineer during the architectural design process to ensure that the acoustical requirements are achieved in the building design process.*

MM: N-1B *The tribe shall engage a qualified acoustic engineer during the first three concerts to verify that the facility is achieving compliance with the applicable exterior noise standards at the nearest residential uses.*

With implementation of MM N-1, this would be less than significant impact.

IMPACT 2: WOULD THE PROJECT RESULT IN EXPOSURE OF OFF-RESERVATION PERSONS TO EXCESSIVE GROUND BORNE VIBRATION OR GROUND BORENE NOISE LEVELS?

Construction vibration impacts include human annoyance and building structural damage. Human annoyance occurs when construction vibration rises significantly above the threshold of perception. Building damage can take the form of cosmetic or structural.

The **Table 5** data indicate that construction vibration levels anticipated for the project are less than the 0.2 in/sec threshold at distances of 26 feet. Sensitive receptors which could be impacted by construction related vibrations, especially vibratory compactors/rollers, are located further than 26 feet from typical construction activities. At distances greater than 26 feet construction vibrations are not predicted to exceed acceptable levels. Additionally, construction activities would be temporary in nature and would likely occur during normal daytime working hours.

This is a **less-than-significant** impact and no mitigation is required.

IMPACT 3: WOULD THE PROJECT RESULT IN A SUBSTANTIAL PERMANENT INCREASE IN AMBIENT NOISE LEVELS IN THE OFF-RESERVATION VICINITY OF THE PROJECT?

Traffic Noise Levels

As noted in Impact 1, the maximum increase in traffic noise at the nearest sensitive receptor is predicted to be 0.4 dBA as shown in **Table 3**. This is less than the 3 dBA test of significance.

Operational Noise at Sensitive Receptors

With Mitigation Measures N-1, exterior noise levels due to the proposed project are expected to be limited to 43 dBA L_{eq} at the nearest residential uses. As shown in **Table 2**, the nearest residential uses are currently exposed to average nighttime noise levels of 40 dBA L_{eq} (Site LT-3). When combined with the existing ambient noise level, total existing plus project stationary noise levels would be 44.8 dBA L_{eq} . This would be a maximum increase of 4.8 dBA which is less than the 5 dBA test of significance.

This is a **less-than-significant** impact, and no additional mitigation is required.

IMPACT 4: WOULD THE PROJECT RESULT IN A SUBSTANTIAL TEMPORARY OR PERIODIC INCREASE IN AMBIENT NOISE LEVELS IN THE OFF-RESERVATION VICINITY OF THE PROJECT?

During the construction phases of the project, noise from construction activities would add to the noise environment in the immediate project vicinity. As indicated in **Table 4**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dBA L_{max} at a distance of 50 feet. Construction activities would also be temporary in nature and are anticipated to occur during normal daytime working hours.

The nearest residential uses are located approximately 1,500 feet from the project site, as measured from the center of the closest construction area (hotel or event center). At this distance, maximum construction noise levels would be in the range of 35-49 dBA L_{eq} and 45-59 dBA L_{max} at the nearest residential uses. This would comply with the County's 75 dBA L_{eq} noise limit for 7 a.m. to 7 p.m. construction activity noise limit outlined in Section 36.409 of the Noise Ordinance. It should be noted that construction activity outside of these hours could exceed the County's 45 dBA L_{eq} nighttime noise standard. Therefore, this is a potentially significant impact.

Existing daytime ambient noise levels were found to be in the range of 48-53 dBA L_{eq} and 63-72 dBA L_{max} , as shown in **Table 2** for sites LT-1 and LT-3. Therefore, the predicted construction noise levels of 35-49 dBA L_{eq} and 45-59 dBA L_{max} would generally be less than existing ambient noise levels and would not cause an increase exceeding the 12 dBA test of significance for temporary construction noise.

Mitigation Measure(s)

MM (N-2) Construction activity should be limited to the hours of 7 a.m. to 7 p.m.

With implementation of MM N-2, this would be less than significant impact.

REFERENCES

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Appendix J sub-appendices available upon request.

Appendix K

Trip Generation Analysis
Memorandum

MEMORANDUM

To: Ryan Sawyer, AICP
Project Director
Acorn Environmental

From: Leonardo Espelet, P.E., T.E.
Whitney DiGiantommaso, P.E.
Kimley-Horn and Associates, Inc.

Date: September 26, 2022

Subject: Jamul Casino Hotel and Event Center Environmental Impact Report (TEIR) Trip Generation Analysis

This memorandum has been prepared to assist with the preparation of the Jamul Indian Village Tribal Environmental Impact Report (TEIR) in support of the proposed hotel and event center at the existing Jamul Casino. This memorandum includes a summary of the traffic data collected at the Jamul Casino's main access driveway and the trip generation potential of the proposed hotel and event center for comparison with the trip generation and distribution assumptions that were studied in the approved Jamul Indian Village Gaming Project Traffic Impact Study, dated November 2012 (Approved TIS). The Approved TIS was included as Appendix 10 of the January 2013 Final Tribal Environmental Evaluation (FTEE) prepared in accordance with the Tribal-State Gaming Compact for the Jamul Indian Village Gaming Development Project. The results of the trip generation potential are compared to the Approved TIS to determine if the mitigations established for the approved Casino project would be sufficient to mitigate the Casino with the hotel and event center development. The mitigations from the FTEE are listed in **Table 1** with mitigation status as of July 2022.

Traffic Data Collection

Driveway inbound/outbound vehicle counts were collected by National Data and Surveying Services (NDS) at the main Casino access driveway (SR-94 and Daisy Drive) for the following dates in 2022 to quantify the actual traffic being generated by the Jamul Casino.

- Saturday, April 16
- Tuesday, April 19 through Saturday, April 23
- Tuesday, April 26 through Saturday, April 30

Table 2 summarizes the vehicular counts for the average weekday (Tuesday – Thursday), Friday, and Saturday and includes the trip generation assumptions that were analyzed in the Approved TIS for comparison. For the purposes of this study, the AM and PM peak hours of the adjacent street were used for consistency with the Approved TIS. It should be noted that live entertainment (e.g., band and/or disc jockey) occurred on Thursday, Friday, and Saturday throughout the duration of the data collection period.

Table 1: Final Tribal Environmental Evaluation Mitigations and Status

SR 94 (Campo Rd) & Jamacha Blvd (intersection)	Restripe NB thru shared left-turn lane to a NB thru shared right-turn lane (Including required traffic signal modifications).	JIV is processing permit for construction
SR 94 (Campo Rd) & Jamacha Rd (intersection)	Add second EB right-turn lane. Extend NB left turn lane pocket.	JIV is processing permit for construction
SR 94 (Campo Rd) & Steele Canyon Rd (intersection)	Add a second EB and WB thru lane.	JIV is in the planning and right-of-way acquisition process
SR 94 (Campo Rd) & Lyons Valley Rd (intersection)	Install Traffic Signal	Completed
SR 94 (Campo Rd) & Melody Rd (intersection)	Install Traffic Signal	JIV is in the planning and right-of-way acquisition process
	Restripe NB shared left/through/right-turn lane to a NB thru shared right-turn lane and add a NB left-turn lane. Restripe SB shared left/through/right-turn lane to a SB thru shared right-turn lane and add a NB left-turn lane.	JIV is in the planning and right-of-way acquisition process
SR 94 (Campo Rd) & Daisy Drive (intersection)	Construct a new access point for the Project	Completed
SR 94 (Campo Rd) & Maxfield Rd (intersection)	Restripe NB and SB approaches along SR 94 to include a two-way left-turn acceleration lane	JIV is processing permit for construction
The Tribe shall pay its fair share of the traffic improvements identified as part of the Approved TIS and the agreed upon fees stated in the Intergovernmental Agreement between the County of San Diego and JIV, dated May 16, 2016		Completed
The Tribe shall pay its fair share of the traffic improvements identified as part of the Approved TIS and the agreed upon fees stated in the Intergovernmental Agreement between the County of San Diego and JIV, dated May 16, 2016		Completed
Note: JIV = Jamul Indian Village NB = Northbound SB = Southbound EB = Eastbound WB = Westbound		

Table 2: Casino Trip Generation Comparison

Weekday	Estimated	9,000	0.70 : 0.30	599	420	179	0.53 : 0.47	1,005	533	472
	Actual	9,885	0.67 : 0.33	263	176	87	0.57 : 0.43	640	365	275
Friday	Estimated	9,000					0.46 : 0.54	1,401	645	756
	Actual	10,811					0.59 : 0.41	663	392	271
Saturday	Estimated	9,000					0.46 : 0.54	1,401	645	756
	Actual	13,039					0.53 : 0.47	825	435	390

Note:
 1. Difference is calculated as actual minus estimated
 2. Used the following peak hours of the casino:
 • Weekday AM: 8:00 AM – 9:00 AM
 • Weekday PM: 5:00 PM – 6:00 PM
 • Friday PM: 5:00 PM – 6:00 PM
 • Saturday PM: 7:15 PM – 8:15 PM
 3. Percent difference calculation

Based on the data collected, the Casino generated the following:

- **Weekday:** Average of 9,885 daily trips, with 263 (176 in, 87 out) trips during the AM peak hour and 640 (365 in, 275 out) during the PM peak hour. Volumes collected were 885 daily trips higher than what was analyzed in the Approved TIS. However, AM and PM peak hour volumes were 56 and 36 percent lower than what was previously assumed in the Approved TIS, respectively.
- **Friday:** Average of 10,811 daily trips, with 663 (392 in, 271 out) trips during the PM peak hour. Volumes collected were 1,811 daily trips higher than what was analyzed in the Approved TIS. However, PM peak hour volumes were 53 percent lower than what was previously assumed in the Approved TIS.
- **Saturday:** Average of 13,039 daily trips, with 825 (435 in, 390 out) trips during the PM peak hour. Volumes collected were 4,039 daily trips higher than what was analyzed in the Approved TIS. However, PM peak hour volumes were 41 percent lower than what was previously assumed in the Approved TIS.

Attachment A contains the traffic volume data sheets.

Proposed Trip Generation

Trip generation for tribal gaming facilities generally peaks on Saturday evenings. However, background traffic on adjacent streets is typically lower on Saturdays than during peak weekday periods. As a result, the overall number of vehicles on the road during the tribal gaming facilities peak periods is typically no worse than the traditional weekday peak-hour conditions. In addition, because these casino facilities are typically open 24 hours per day, 7 days per week, they do not experience pronounced peak periods like other land uses. Instead, casino traffic follows a smoother daily traffic profile that builds steadily from early morning until approximately 7:00 PM (19:00), after which traffic levels slowly decline, as shown in **Figure 1**, **Figure 2**, and **Figure 3** during an average weekday, Friday, and Saturday from the data collected for the existing casino, respectively.

Based on existing traffic volume information and expected trip generation, it was determined that the Friday and Saturday PM peak periods represent the worst-case periods during which to evaluate the expansion. It is during these periods that the combination of background traffic and casino traffic are anticipated to be at the highest levels. However, the weekday AM and PM peak hours were also included for comparison to the Approved TIS.

Figure 1: Existing Casino Weekday Inbound and Outbound Trips

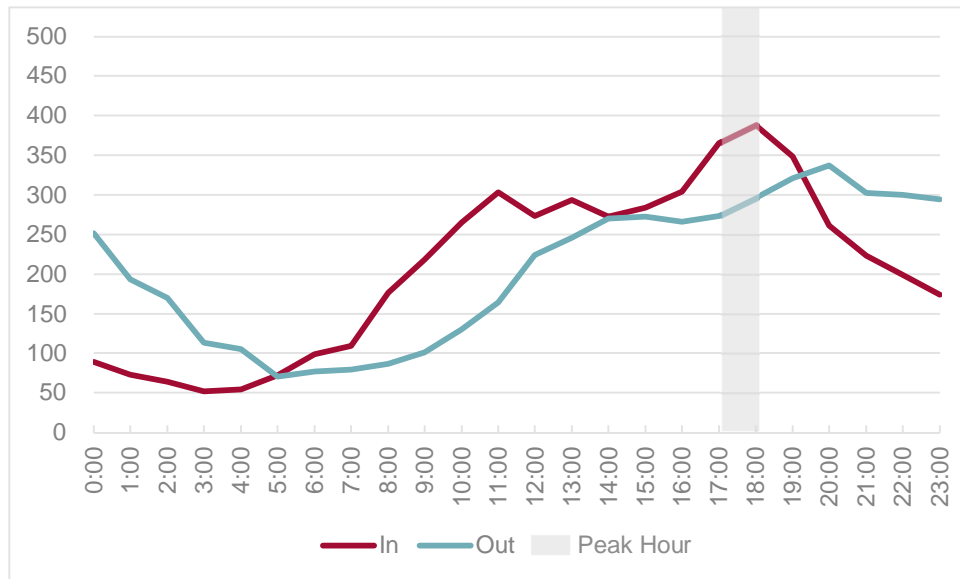


Figure 2: Existing Casino Friday Inbound and Outbound Trips

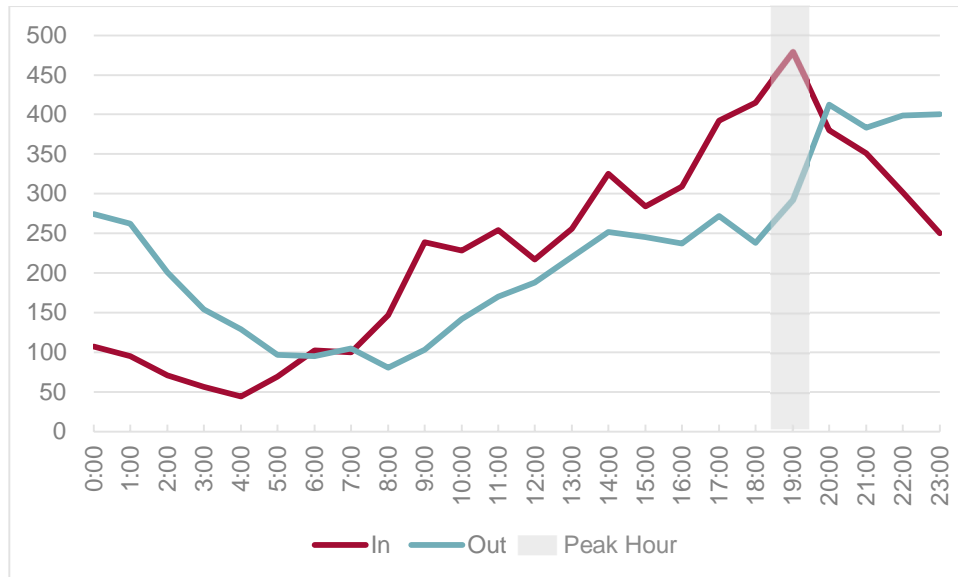
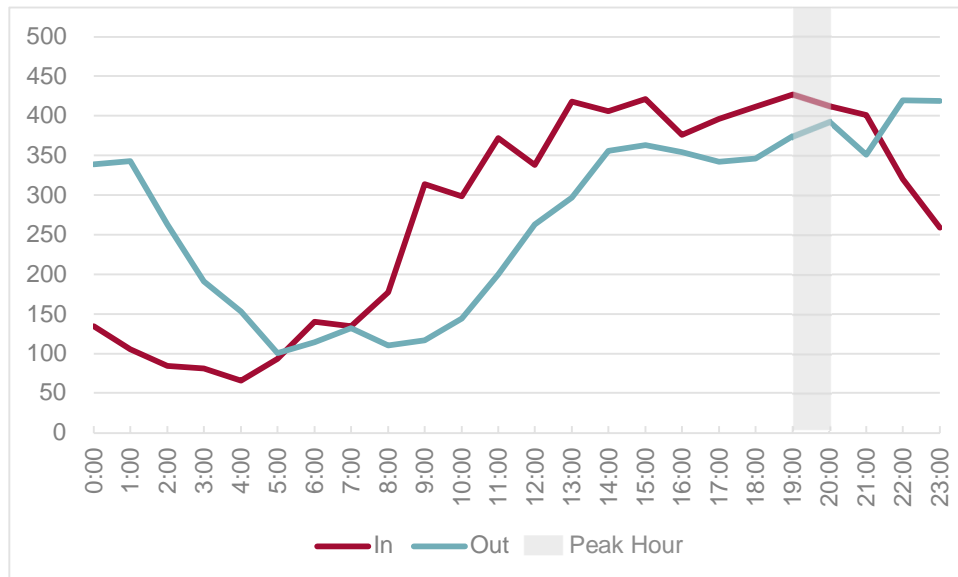


Figure 3: Existing Casino Saturday Inbound and Outbound Trips



The proposed addition to the Casino includes a new 253,500 SF (225 rooms) hotel and an approximate 35,000 square-foot (SF) expansion consisting of a 9,250 SF (465 seats) multi-purpose/bingo hall and a 25,500 SF event center. The hotel is anticipated to include dining, banquet, bar, pool, fitness center, and spa facilities. These hotel accessory uses are intended to provide support to the hotel and are not anticipated to generate additional traffic. **Attachment B** contains the detailed project description and site plan.

Trip generation for the new hotel, multi-purpose/bingo hall, and event center was determined using multiple sources based on availability and applicability of data. **Table 3** summarizes the trip generation potential of the proposed development.

The effects of the interaction between the casino gaming floor, event center/ballroom, and hotel are commonly captured in the casino trip generation rates. This is particularly true for hotel-casino-event facilities in rural locations, where patrons engage in relatively few “in-and-out” trips after arriving at the facility (as compared to standard hotels for which stand-alone trip generation rates are used).

Trip generation for the proposed hotel component (the new 225 rooms) was calculated using the trip generation rates published by the County of San Diego in the *Traffic Needs Assessment of Tribal Development Projects in the San Diego Region* (March 2003). Typically, casinos with on-site hotel facilities implement a pricing structure for the rooms that favors casino guests. Therefore, because casino hotels primarily accommodate casino patrons, they are not considered to generate a significant number of new vehicle trips. The used trip rate of 3 vehicular trips per room accounts for this interaction between the hotel and casino. As shown in **Table 3**, the hotel is anticipated to generate 675 new daily trips with 34 trips during the weekday AM peak hour, 47 trips during the weekday, Friday, and Saturday PM peak hours.

Like the proposed hotel, the trip generation for the multi-purpose/bingo hall was calculated using a standard rate with a reduction applied for the interaction between the casino and ancillary uses. For the multi-purpose/bingo hall, the ITE *Trip Generation Manual, 11th Edition* was used as this land use was not available in the SANDAG rates. The trip generation was calculated using the peak of the generator rates as the adjacent street rates were not available. A daily rate was not available; therefore, it was assumed that the casino will hold two bingo “sessions” a day with a duration of approximately 6 hour each. During these sessions, it is anticipated that all seats will be used resulting in a daily trip generation of 930 trips. The multi-purpose/bingo hall trip generation rate was conservatively reduced by 70% to account for internal capture to and from the casino. As shown in **Table 3**, the multi-purpose/bingo hall is anticipated to generate 279 trips daily, 21 trips during the weekday AM peak hour, and 67 trips during the weekday, Friday, and Saturday PM peak hours.

For the daily traffic generation for the event center, a 40 trips per 1,000 square foot rate was used based on the Approved TIS which references the *Updates on Impacts of Tribal Economic Development Project* in San Diego County, dated April 2003, study. For the peak-hour generation of the Event Center, it was assumed that approximately 10 percent of the traffic generated by this use would arrive to the facility during the afternoon peak-hour analyzed during only Fridays and Saturdays. The event center would not generate peak-hour volumes during the typical weekday. The 10 percent assumption was

based on most events would have a start time of 7:30 PM. In addition, a reduction of 70% was applied to the event center trip generation based on the internal capture to and from the casino. The 70% reduction factor was referenced from a similar tribal gaming facility, *Cache Creek Hotel Expansion Project Traffic Impact Study*, dated July 2016.

The Cache Creek Casino Resort is located near Brooks, California in Yolo County, which is a relatively rural and agricultural region outside the great Sacramento metropolitan area. The Cache Creek Casino Resort included 74,720 square feet of casino floor space, nine restaurants, and a 729-seat event center. The Cache Creek Hotel Expansion Project included 459 new hotel rooms, 178 new restaurant seats, and a new event facility with 596 seats. Extensive data collection was conducted as part of this Cache Creek study for the existing event center to determine the number of patrons visiting the event that were not there due to the casino activity. The Cache Creek Casino data collection demonstrated that approximately 70% of the event center patrons would have visited the casino without an event occurring. The remaining 30 percent of the patrons represented new trips that would not be expected to occur without the event venue. As shown in **Table 3**, using the same percentages, the proposed event center is anticipated to generate 306 daily trips with 31 trips during the Friday and Saturday PM peak hours.

In addition, approximately 16,000 SF of the casino will be relocated/remodeled in support of the expansion. However, no expansion of the gaming floor, number of slot machines, or table games is proposed. Therefore, no additional trips are anticipated to be generated from the remodel.

The proposed expansion is anticipated to generate a total of 1,260 daily trips with 55 trips during the weekday AM peak hour, 114 trips during the weekday PM peak hour, and 145 trips during the Friday and Saturday PM peak hours

Table 3: Proposed Expansion Trip Generation

				Weekday AM Peak Hour			Weekday PM Peak Hour			Friday and Saturday PM Peak Hour					
				Trips	Trips	Trips	Trips	Trips	Trips	Trips	Trips	Trips			
Hotel ^{1,2}	225	Rooms	675	34	20	14	47	19	28	47	19	28	47	19	28
Multi-Purpose/Bingo Hall ^{3,4,6}	465	Seats	279	21	20	1	67	5	62	67	5	62	67	5	62
Event Center ^{5,6,7}	25,500	Square Feet	306	See note 7			See note 7			31	29	2	31	29	2

- Note:
1. Used County of San Diego document titled *Traffic Needs Assessment of Tribal Development Projects in the San Diego Region*, dated March 2003
 2. No Saturday trip generation information provided, used Weekday PM Peak Hour for Saturday PM Peak Hour
 3. Used Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th Edition*
 4. No daily trip generation information provided, only peak hour of the generator available, and used PM peak hour of the generator for Saturday PM Peak Hour
 5. Used Jamul Indian Village Gaming Project Traffic Impact Study, dated November 2012
 6. Trip generation rates reduced by 70% to account for internal capture to/from casino based on *Cache Creek Hotel Expansion Traffic Impact Study*, dated July 2016
 7. Land use is not anticipated to generate peak hour trips during a weekday

Trip Generation Conclusion

Casino trip generation rates commonly include patrons to the slot machines and table games, hotel guests, event center attendees, as well as ancillary uses such as restaurants, bars, meeting spaces, back-of-house, employees arriving and departing on a shift change, and all of the general activities occurring at the facility during the peak hours. As such, separate calculations for the non-casino functions are typically not necessary. For this study however, as a conservative approach, a separate trip generation calculation was applied to capture the interactions of the ancillary uses (e.g., hotel, multi-purpose/bingo hall, and event center) with the casino.

Table 4 provides a comparison between the previously estimated casino trip generation versus the sum of the actual casino trip generation with the estimated traffic generation of the proposed expansion. As shown in the table, for the peak-hour operations, the sum of the actual trip generation with the estimated proposed expansion is less than the previously estimated trip generation for the Casino, as analyzed in the Approved TIS. Therefore, the mitigations identified in the Approved TIS would be sufficient and adequate to mitigate the potential transportation related impacts associated with the additional traffic from the proposed expansion.

Table 4: Proposed Expansion Trip Generation Comparison

Weekday	Estimated	599	420	179	1,005	533	472
	Actual + Proposed	318	216	102	754	389	365
Friday	Estimated				1,401	645	756
	Actual + Proposed				808	445	363
Saturday	Estimated				1,401	645	756
	Actual + Proposed				970	488	482
Note: 1. Difference is calculated as (actual plus proposed) minus estimated							

Vehicle Miles Traveled (VMT) Analysis

In addition to the trip generation analysis, a qualitative vehicle mile traveled (VMT) analysis was conducted for the proposed expansion project. Similar to the trip generation analysis results, the expansion project is not anticipated to increase VMT due to the project location and characteristics. The JIV Casino is located within approximately 20 miles of the Regional's population center, and therefore, as being the closest casino to the population center, any new vehicular trip to the JIV casino would result in a VMT decrease as the new trip would be shorter than the patrons traveling to any other Casino option within the Region. The expansion project also includes the development of a hotel which

is anticipated to decreased VMT as it allows patrons to stay overnight at the hotel versus making multiple trips to the Casino. Therefore, the expansion is anticipated to decrease VMT within the region.

Attachments:

- A – Traffic Data Collection
- B – Project Description and Site Plan

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Appendix K sub-appendices available upon request.

Appendix L

Notice of Completion of Draft TEIR

**NOTICE OF COMPLETION
OF A TRIBAL ENVIRONMENTAL IMPACT REPORT FOR THE
JAMUL CASINO HOTEL AND EVENT CENTER PROJECT**

DATE: September 30, 2022

TO: State Clearinghouse
County of San Diego
State Gaming Agency
California Department of Justice, Office of the Attorney General
Interested Parties

LEAD AGENCY: Jamul Indian Village of California
14191 Highway 94
Jamul, CA 91935

PROJECT TITLE: **Jamul Casino Hotel and Event Center Project**

PROJECT WEBSITE www.jamulteir.com

COMMENT PERIOD: Friday, September 30 – Monday, November 14, 2022

The Jamul Indian Village Development Corporation, a wholly owned subsidiary and instrumentality of the Jamul Indian Village of California (Tribe), owns and operates the Jamul Casino situated on federally owned land that is held in trust for the Tribe and located at 14145 Campo Road, Jamul, CA 91935 (Reservation).

The Jamul Casino is operated pursuant to the Tribal-State Compact between the State of California and the Jamul Indian Village of California (Compact). Section 11 of the Compact requires that, before beginning the construction of any new “Project” (as defined in Section 2.22 of the Compact), the Tribe must prepare a Tribal Environmental Impact Report (TEIR) analyzing the potentially significant off-Reservation environmental impacts of that Project. That environmental analysis is to be conducted pursuant to the process described in the Compact.

This Notice is given pursuant to the Compact to inform interested parties that the Tribe has prepared a Draft TEIR for the Jamul Casino Hotel and Event Center Project (Project), described below. The Draft TEIR includes an analysis of potentially significant direct and indirect off-reservation environmental impacts attributable to the Project, mitigation measures to address such impacts, and other issues as required by the Compact. As the Lead Agency, the Tribe will use the TEIR when considering approval of the Project.

LOCATION

The Reservation consists of approximately six acres of federal trust land located in unincorporated San Diego County, approximately one mile south of the community of Jamul. The Jamul Casino is located on the Reservation at 14145 Campo Road, Jamul, CA 91935. The Reservation is located within portions of Section 10 and unsectioned areas of Township 17 S, Range 1 East, San Bernardino Baseline and Meridian, Dulzura, CA and Jamul Mountains, CA, U.S. Geological Survey 7.5-minute Quadrangles.

State Route 94 (SR 94) provides regional access to the Reservation from downtown San Diego, which is located approximately 20 miles to the west of the Reservation. Local access to the Reservation is provided directly from SR 94 via Daisy Drive and an access road limited to authorized vehicles.

PROJECT DESCRIPTION

The Jamul Casino opened in October 2016 and was the subject of an exhaustive environmental review including the 2006 Tribal Environmental Impact Statement/Report (Tribal EIS/R) and the 2013 Tribal Environmental Evaluation and subsequent addendums. The Jamul Casino currently includes 1,656 slot machines, 378 table game seats, food court, seven dining locations, rooftop event venue, and associated parking. Other existing uses on the Reservation include wastewater treatment facilities, tribal administration building, and a tribal community center. Immediately adjacent to the Reservation, on land owned by the Tribe, is a chapel and Tribal cemetery.

The Proposed Project consists of remodeling the existing Jamul Casino to include a new event center, multi-purpose/bingo hall, 225-room hotel, and associated parking and infrastructure. The proposed remodeling would eliminate the second floor (which is a veranda level between the main casino floor and the third floor, and the location of a restaurant) and the fourth floor (currently the rooftop lounge) of the existing Casino building and expand the third floor to accommodate an approximately 25,500 square-foot (sf) outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation. The existing restaurant located on the second floor of the casino building would be relocated to the third floor with no changes in occupant capacity. Existing office space on the eastern portion of the third floor would be relocated to an expanded area of the western portion of the third floor. The new event venue would result in a net increase of approximately 35,000 sf of enclosed, covered outdoor, and uncovered outdoor areas. No expansion of the gaming floor or increase in the number of slot machines or table games is proposed.

The new hotel and associated parking structure would be located west of the existing casino building with pedestrian access to the casino building provided through a new enclosed pedestrian bridge over Willow Creek, which bisects the Reservation immediately west of the existing casino building. The proposed 225-room hotel would consist of 16 stories including 2 levels of back-of-house, a hotel lobby level with restaurant, a spa level with outdoor deck, a banquet hall level, 10 levels of guest rooms, and a rooftop pool deck. The new six-story parking structure would be located south of the new hotel building and would connect to the hotel lobby. The existing tribal community center and administration building would be removed to accommodate the footprint of the new hotel and parking structure. There are several options under consideration for relocation of the Tribal administration and community facilities, including utilizing space within the expanded third floor administrative areas of the casino, purchase of an off-site property with an existing building, or leasing existing office space within the region. The TEIR assumes that the existing modular administration building would be relocated to an existing concrete pad associated with

a former fire department building on the western portion of the 4-acre parcel, which is north of the Reservation. The relocated building would be utilized by the tribal security department.

Construction activities associated with the hotel and parking garage components of the Project are proposed to commence in December 2022 with excavation and soil nail installation first. Construction activities are anticipated to take place over 18-24 months. Consistent with prior commitments, the Tribe would require construction contractors to limit exterior construction to between the hours of 7 a.m. and 7 p.m. Monday through Saturday, with no work scheduled on Sundays and federally recognized holidays.

Construction of the parking garage will commence first, followed by construction activities associated with the hotel tower. During the initial construction of the parking garage, equipment and materials staging will occur within the western area of the Reservation, with the 4-acre parcel being utilized for temporary construction trailers and as a temporary staging area for deliveries and equipment. Following completion of levels 4-5 of the parking structure, construction of the hotel tower will commence, with the top level of the parking structure being utilized for equipment and materials laydown, and the lower levels of the garage being utilized for construction worker parking. If required, construction staging and employee parking may also occur within previously paved/disturbed off-Reservation locations/parking lots, with shuttles potentially utilized to transport workers to the project site.

PUBLIC REVIEW AND COMMENT PERIOD

The Draft TEIR and a copy of this notice can be reviewed online at www.jamulteir.com.

Further notice is hereby given that the Tribe invites comments on the Draft TEIR in response to this notice. Pursuant to the Compact, a forty-five-day (45) public review period is required and shall commence on the date of this notice (September 30, 2022) and end on November 14, 2022. Comments should be in writing and sent by email or mail to the following address with the subject heading "Comments Re: NOC for the Jamul Casino Hotel and Event Center Project". Please send your comments to:

Email: Admin@JamulTEIR.com

Mail: Jamul Indian Village of California
Attn: Chairwoman Erica M. Pinto
P.O. Box 612
Jamul, CA 91935

All comments postmarked by November 14, 2022 will be reviewed and considered by the Tribe.

Appendix M

Comments Received on the Draft TEIR



State of California – Natural Resources Agency
 DEPARTMENT OF FISH AND WILDLIFE
 South Coast Region
 3883 Ruffin Road
 San Diego, CA 92123
 (858) 467-4201
www.wildlife.ca.gov

GAVIN NEWSOM, Governor
 CHARLTON H. BONHAM, Director



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November 14, 2022

Governor's Office of Planning & Research

Erica M. Pinto
 Chairwoman, Jamul Indian Village of California
 P.O. Box 612
 Jamul, CA 91935
EPinto@jiv-nsn.gov

NOV 14 2022

STATE CLEARING HOUSE

Subject: Jamul Casino Hotel and Event Center Project (Project), Draft Tribal Environmental Impact Report (TEIR), SCH #2022050410

Dear Chairwoman Pinto:

The California Department of Fish and Wildlife (CDFW) has reviewed the above-referenced Draft TEIR on the Jamul Casino Hotel and Event Center Project pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines.¹

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, CDFW appreciates the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW ROLE

CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statute for all the people of the State. (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a).) CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (*Id.*, § 1802.). Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW is also submitting comments as a **Responsible Agency** under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381.) CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority. (Fish & G. Code, § 1600 et seq.) Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the project proponent may seek related take authorization as provided by the Fish and Game Code. CDFW also administers the Natural Community Conservation Planning (NCCP) program. While we acknowledge that the Jamul Indian Village of California is not a signatory to the NCCP, the project site is located within and adjacent to the surrounding boundaries of the County of San Diego Multiple Species Conservation Program (MSCP) Subarea Plan (SAP) and CDFW seeks to not have the project result in direct or indirect impacts to conservation objectives of the MSCP, including indirect effects on habitats/species conserved on CDFW's immediately adjacent Rancho Jamul Ecological Reserve (RJER).

PROJECT DESCRIPTION SUMMARY

Proponent: Jamul Indian Village of California (JIV, Tribe)

Objective: The Project consists of the expansion of the existing Jamul Casino, adding a hotel, event center, an additional parking garage, and associated infrastructure. The additions will be located on the Jamul Indian Village of California's existing Reservation. The hotel will contain up to 225 rooms and be developed on the west side of the existing casino. Pedestrian access to the Casino will be provided by a new clear-span bridge over Willow Creek. The parking garage will provide 225 parking spaces and will be located south of the hotel building. An existing modular tribal community center and administration building currently located on the west side of the

¹ CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

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 November 14, 2022
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property will be removed to accommodate the new hotel and parking structure. Infrastructure improvements are planned, including upgrading the existing wastewater treatment plant. Soil nails are proposed to be placed along the southern and northwestern perimeters of the Project site, which would extend below ground level into adjacent properties, including RJER. A four-acre parcel is located directly north of the Casino, and while it is not part of the Reservation, it is owned by the Tribe. Off-Reservation impacts due to the Project include this four-acre parcel, as well as RJER. Project activities on the four-acre parcel may include construction deliveries and temporary construction trailers, a new fire service water line, and the installation of a modular building.

Three Project alternatives were discussed within the TEIR: a no-project alternative; Alternative A (hotel-only alternative), which would be similar to the proposed Project but would lack an expanded event center; and, Alternative B (reduced-hotel alternative), which would consist of a smaller hotel and parking garage, while all other aspects of the proposed Project would remain the same.

Location: The Project site is located in unincorporated San Diego County approximately one mile south of the community of Jamul. The site is located on the Reservation at 14145 Campo Road, Jamul, CA 91935. The Reservation consists of six acres of federal trust land. Regional access to the site is via State Route (SR) 94, and local access to the site is provided via Daisy Drive.

Biological Setting: CDFW's RJER (approximately 5,700 acres) is located adjacent to the Reservation along the southern boundary. Hollenbeck Canyon Wildlife Area (HCWA; approximately 6,100 acres), also owned and managed by CDFW, is located east of the Reservation, on the opposite side of SR 94. Conserved land within the County's MSCP hardline preserve is located adjacent to the northern boundary of the Reservation. Willow Creek, an ephemeral stream, is located on the Reservation and bisects the Project site, and is a tributary to Jamul Creek, which is located off-Reservation.

The TEIR identifies the following vegetation communities and habitat types on or adjacent to the Reservation: ruderal/developed land on most of the Reservation and on the four-acre parcel west of Daisy Drive; annual grassland on adjacent areas north of the Reservation; coast live oak riparian habitat associated with Willow Creek, which runs north-south through the Reservation and extends into off-Reservation lands to the north and south; coastal scrub habitat to the east, south, and west of the Reservation and on the four-acre parcel east of Daisy Drive. Acreages of each of these vegetation communities are not provided.

The TEIR identifies the following special-status wildlife species with a moderate or high potential to occur in the project vicinity: Cooper's hawk (*Accipiter cooperii*; CDFW Watch List (WL)), golden eagle (*Aquila chrysaetos*; California Fully Protected species; WL), yellow warbler (*Dendroica petechia brewsteri*; CDFW Species of Special Concern (SSC)), southwestern willow flycatcher (*Empidonax traillii extimus*; Federal Endangered Species Act (ESA)-listed endangered; CESA-listed endangered), coastal California gnatcatcher (*Poliottila californica californica*; ESA-listed threatened; SSC), least Bell's vireo (*Vireo bellii pusillus*; ESA-listed endangered; CESA-listed endangered), orange-throated whiptail (*Aspidoscelis hyperythra*; WL), coastal whiptail (*Aspidoscelis tigris stejnegeri*; SSC), Baja California coachwhip (*Coluber fuliginosus*; SSC), red-diamond rattlesnake (*Crotalus ruber*; SSC), Blainville's horned lizard (*Phrynosoma blainvillii*; SSC), Coronado skink (*Plestiodon skiltonianus interparietalis*; WL), Dulzura pocket mouse (*Chaetodipus californicus femoralis*; SSC), San Diego black-tailed jackrabbit (*Lepus californicus bennettii*; SSC), and San Diego desert woodrat (*Neotoma lepida intermedia*; SSC).

RJER supports breeding and overwintering pairs of western burrowing owl (*Athene cunicularia*; SSC) and nesting colonies of tricolored blackbird (*Agelaius tricolor*, CESA listed-threatened). Critical habitat for Hermes copper butterfly (*Lycaena hermes*) is located to the south and west of the Reservation.

The TEIR identifies the following special-status plant species with a moderate or high potential to occur in the project vicinity: San Diego sagewort (*Artemisia palmeri*; California Native Plant Society Rare Plant Rank (CRPR) 4.2), Otay tarplant (*Deinandra conjugens* ESA-listed threatened; CESA-listed endangered; CRPR 1B.1), Palmer's goldenbush (*Ericameria palmeri* var. *palmeri*; CRPR 1B.1), Palmer's grappling hook (*Harpagonella palmeri*; CRPR 4.2), Ramona horkelia (*Horkelia truncata*; CRPR 1B.3), decumbent goldenbush (*Isocoma menziesii* var. *decumbens*; CRPR 1B.2), Gander's pitcher sage (*Lepechinia gander*; CRPR 1B.3), Robinson's pepper-grass (*Lepidium virginicum* var. *robinsonii*; CRPR 4.3), felt-leaved monardella (*Monardella hypoleuca* ssp. *lanata*; CRPR 1B.2), and Munz's sage (*Salvia munzii*; CRPR 2B.2).

Regional conservation goals by species and habitat types have been developed for the Metro-Lakeside-Jamul segment of the County MSCP SAP, with preserves and "hardline" areas. Several

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of the species listed above are also designated as covered species under the County's MSCP SAP.

A1-1
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COMMENTS AND RECOMMENDATIONS

CDFW offers the comments and recommendations below to assist Jamul Indian Village of California in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources

COMMENT #1: Soil Nails

As described in the TEIR, soil nail installation would extend to off-Reservation areas including RJER. In 2014, a subsurface easement was approved between JIV and CDFW to allow for the placement of soil nails in a different area of RJER; however, a new easement, subject to approval by CDFW, will be required for soil nail installation associated with the current Project. Based on discussions between JIV and CDFW staff, it is our understanding that placement of soil nails will not result in any direct impact or loss of surface habitat or wildlife species. We thank JIV for their outreach to CDFW regarding the requisite soil nail easement and look forward to continued coordination with JIV on this issue.

A1-2

COMMENT #2: Wildlife Crossing

CDFW is concerned about the potential increase in wildlife mortality resulting from a Project-related increase in traffic along SR 94. To that end, CDFW is collaborating with River Partners to create a program which will facilitate the construction of wildlife over-crossings. We acknowledge that the Tribe anticipates funding, design, and construction of a wildlife crossing through the current Tribal-State Compact between the State of California and the Jamul Indian Village of California. We look forward to additional coordination on this matter as funds become available and design aspects of the crossing can be assessed.

A1-3

COMMENT #3: Environmental Baseline

Impacts to biological resources within the Project, specifically habitat types, are not adequately quantified in the TIER. Without assessments of percent cover and quality of habitat, and quantification of impacts to that habitat, it cannot be determined if impacts are adequately avoided, minimized, or mitigated. A qualified biologist (e.g. expert opinion) should complete surveys of habitat and analyze potential impacts to biological resources before impacts can be concluded (Public Resources Code, § 21082.2 (C)).

A1-4

CDFW strongly recommends that habitat acreages, quality, and impact assessment be incorporated into the TEIR with a discussion as to the significance of the impacts. We encourage the Tribe to consider compensatory mitigation for habitat types that is in alignment with the County's MSCP SAP for impacts to these habitats cannot be avoided. Measures that describe the mitigation should be included in the Summary of Impacts and Mitigation Measures section of the TEIR.

COMMENT #4: Fuel Modification Zones

Despite the TEIR describing CalFire's assessment of the Project site as located in a Very High Fire Hazard Severity Zone (page 3-92), fuel modification zones are not provided nor assessed in the environmental document. Fire risk in association with the Project is of great concern to CDFW, given the proximity of the Project area to HCWA and RJER. Fire is particularly dangerous to small populations of species who may lose all local viable habitat should such a fire occur. Many such species can be found at the above-mentioned conserved areas (i.e., Quino checkerspot butterfly, coastal California gnatcatcher). It is with threat of fire in proximity to biological resources, including sensitive species and habitats, that CDFW recommends that a detailed brush management plan be developed and that fuel modification zones be defined in the TEIR. The plan should include figures depicting zones to be cleared, as well as allowances for sensitive plant species, should such species be found within the Project area. All brush clearing must be done within the Project area. The State is neither responsible for, nor required to participate in, brush clearing on behalf of the JIV (Government Code, §§ 51175-51189).

A1-5

COMMENT #5: Hermes Copper Critical Habitat

Per the TEIR, Hermes copper butterfly was not detected during surveys in 2011, 2012, and 2013 in the Project site and vicinity; however, no information is given on survey protocol or timing. Hermes copper is a highly endemic species with a small, vulnerable, localized population. Given that

A1-6

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significant impacts to the species could occur from very small direct impacts to the species and/or indirect impacts to its habitat, and that the surveys are in some cases more than 10 years old, CDFW recommends that the Tribe conduct new, seasonally appropriate surveys following available protocol. The new survey data should be included and discussed in the TIER.

A1-6
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COMMENT #6: Avian Species

RJER is an important breeding and overwintering site for western burrowing owl. CDFW requests that the TEIR include an assessment of potential off-Reservation impacts to this species. Additionally, tricolored blackbird colonies nest in a nearby pond located on RJER. Disturbance of the colony during the nesting season (mid-March to July) could lead to nest abandonment, especially during early establishment. The TEIR should also include an assessment of potential off-Reservation impacts to tricolored blackbird colonies.

A1-7

Additionally, CDFW acknowledges that the TEIR includes plans for nesting bird surveys when construction activities occur within 500 feet of off-Reservation lands during the avian nesting season (page 2-19). We request that the survey timing be modified from 10 calendar days prior to the start of construction to three days, to more effectively limit impacts to nesting birds.

COMMENT #7: Lighting and Noise

The TEIR includes measures which restrict construction work to 7:00am to 7:00pm (page 3-34) and direct lighting associated with the new hotel according to the County's "Lighting Pollution" ordinance (page 2-18); however, it is unclear if long-term indirect impacts to wildlife inhabiting surrounding conserved areas could occur due to structure lighting and light arrangements, even with these measures in place. An excess of lighting has potential to impact small mammal species, raptor foraging, and result in greater mortality of wildlife from predators. Additionally, night-time lighting from large sign screens, billboards, and from illumination through windows of hotel rooms can disrupt flight patterns for bats and migratory birds. Therefore, we request the TEIR describe permanent lighting adjacent to native habitat in more detail. Lighting should be of the lowest illumination necessary for human safety, selectively placed, as well as shielded/directed away from adjacent natural habitats. The indirect illumination from hotel or facility walls should also be addressed.

A1-8

The TEIR also includes measures which reduce construction noise impacts and has measures which will minimize noise in adjacent areas from the established hotel and infrastructure, per the County Noise Ordinance (page 2-23); however, noise impacts to biological resources are not fully analyzed, especially with respect to the completed hotel. Generally, average noise levels above 60 decibels are considered to negatively impact nesting birds and other wildlife. CDFW requests that that the long-term indirect, direct, and cumulative impacts of noise on biological resources from the established hotel be addressed in the TIER.

COMMENT #8: Fencing

CDFW requests that the TEIR include a discussion of how the Project design will ensure visiting patrons and employees shall be prevented from straying onto neighboring RJER or impacting Willow Creek. Barriers, such as fences, should be installed and maintained in a manner that does not prevent wildlife from moving through natural migration routes, but also does not allow people to stray onto neighboring properties or riparian habitats. Signage should be installed and maintained by the Tribe.

A1-9

COMMENT #9: Pre-Construction Surveys

CDFW acknowledges the inclusion of a plan for a pre-construction survey of the four-acre parcel east of Daisy Drive and affected portions of the SR 94 right-of way (page 2-20). However, no timeline for this survey is described. Additionally, CDFW recommends that the pre-construction survey include the entirety of any off-Reservation Project site(s), which would include the portion of the four-acre parcel that is west of Daisy Drive. CDFW recommends that a pre-construction survey occur no more than two weeks prior to the initiation of Project Activities. If construction activities in these areas cease for more than 14 consecutive days, CDFW recommends that another pre-construction survey be conducted.

A1-10

COMMENT #10: Construction Monitoring

It is highly recommended that a monitoring biologist, reviewed and approved by CDFW, be on site during construction activities to ensure compliance with all conservation measures. The Tribe should submit the biologist's name, contact information, and work schedule to CDFW at least five

A1-11

Erica M. Pinto, Chairwoman
Jamul Indian Village of California
November 14, 2022
Page 5 of 6

days prior to construction initiation. The biologist's duties should include but not be limited to the following:

- a. oversee installation of and subsequently inspect temporary fencing and erosion control measures within or up-slope of all restoration and/or preservation areas a minimum of once per week and daily during all rain events to ensure that any breaks in the fence, sound barrier, or erosion control devices are repaired immediately;
- b. monitor the work area weekly to ensure that work activities do not generate excessive amounts of dust or noise and to ensure noise is reduced during construction activities;
- c. train all contractors and construction personnel on the biological resources associated with the Project and ensure that training is implemented by construction personnel;
- d. halt work if sensitive species are observed and confer with CDFW to ensure the proper implementation of species and habitat protection measures. The biologist should report any deviation from conservation measures as defined in the TEIR to CDFW within 24 hours of its occurrence;
- e. submit weekly letter reports to CDFW during the clearing of habitat and/or Project construction within 300 feet of protected habitat. The weekly reports should document general compliance with all conditions. The reports should also outline the duration of species monitoring, the location of construction activities, the type of construction which occurred, and equipment used. These reports should specify numbers, locations, and sex of sensitive species (if present), observed species behavior (especially in relation to construction activities), and remedial measures employed to avoid impacts to sensitive species. Raw field notes should be made available upon request by CDFW; and,
- f. submit a Final report to CDFW within 30 days of the completion of the soil nail installation process that demonstrates general compliance with all conditions was achieved.

A1-11
cont.

COMMENT #11: Best Management Practices

Best management practices are described for construction of the soil nail wall (page 2-20). Similar best management practices should be implemented for other construction activities, including any off-Reservation activities, as well as areas within 300 feet of preserved habitat.

Additionally, CDFW requests that the following Best Management Practices be incorporated into the TEIR:

- a. employees should strictly limit their activities, vehicles, equipment, and construction materials to the fenced project footprint;
- b. to avoid attracting predators of sensitive species, the project site should be kept as clean of debris as possible. All food related trash items should be enclosed in sealed containers and regularly removed from the site; and,
- c. due to the presence of San Diego black-tailed jackrabbit on site or nearby, project personnel should be made aware of Rabbit Hemorrhagic disease, which can cause 70 to 100 percent mortality in members of the rabbit family. CDFW recommends that equipment and work boots be disinfected with a ten percent bleach solution to help prevent the spread of the disease.

A1-12

COMMENT #12: Lake and Streambed Alteration Agreement

Project activities may have off-site impacts to aquatic features that have a bed, bank, or channel. As a Responsible Agency under CEQA, CDFW has authority over a) activities in streams and/or lakes that will divert or obstruct the natural flow; b) changes in the bed, channel, or bank (including vegetation associated with the stream or lake) of a river or stream; and, c) use of material from a streambed. For any such activities, an entity must provide written notification to CDFW pursuant to Fish and Game Code section 1600 et seq. We acknowledge that measures are in place to limit impacts to Willow Creek, including avoidance measures (page 2-19) and a clear-span bridge (page 2-1). If impacts to Willow Creek do occur, this could lead to off-Reservation impacts. We suggest early coordination to determine if notification to CDFW is appropriate.

A1-13

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).)

Accordingly, please report any special status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDDB). The CNDDDB field survey form can be found at the following link:

http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/CNDDDB_FieldSurveyForm.pdf. The completed form can be mailed electronically to CNDDDB at the following email address: CNDDDB@wildlife.ca.gov.

A1-14

Erica M. Pinto, Chairwoman
Jamul Indian Village of California
November 14, 2022
Page 6 of 6

The types of information reported to CNDDDB can be found at the following link:
http://www.dfg.ca.gov/biogeodata/cnddb/plants_and_animals.asp.

A1-14
cont.

FILING FEES

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

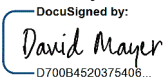
A1-15

CONCLUSION

CDFW appreciates the opportunity to comment on the TEIR to assist to assist the Jamul Indian Village of California in identifying and mitigating Project impacts on biological resources.

Questions regarding this letter or further coordination should be directed to Brigid Moran at Brigid.Moran@wildlife.ca.gov.

Sincerely,

DocuSigned by:

D700B4520375406...

David A. Mayer
Environmental Program Manager
South Coast Region

ec: CDFW

Jennifer Turner, San Diego – Jennifer.Turner@wildlife.ca.gov
Jennifer Ludovissy, San Diego – Jennifer.Ludovissy@wildlife.ca.gov

OPR

State Clearinghouse, Sacramento – State.Clearinghouse@opr.ca.gov

USFWS

Jonathan Snyder – Jonathan_d_Snyder@fws.gov

REFERENCES

California Department of Fish and Wildlife. 2020. Lake and Streambed Alteration Program.
<https://wildlife.ca.gov/Conservation/LSA>.

California Department of Fish and Wildlife. Disease and Mortality Monitoring, Rabbit Hemorrhagic Disease. <https://wildlife.ca.gov/Conservation/Laboratories/Wildlife-Health/Monitoring#55671861-rabbit-hemorrhagic-disease>.

California Environmental Quality Act (CEQA). California Public Resources Code in section 21000 et seq. The “CEQA Guidelines” are found in Title 14 of the California Code of Regulations, commencing with section 15000.

California Office of Planning and Research. 2009 or current version. CEQA: California Environmental Quality Act. Statutes and Guidelines, § 21081.6 and CEQA Guidelines, § 15097, §15126.4(2).

California Department of Transportation

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November 14, 2022

11-SD-94
 PM 20.967

Jamul Casino Hotel and Event Center Project
 TEIR/SCH# 2022050410

Ms. Erica M. Pinto
 Chairwoman
 Jamul Indian Village of California
 PO Box 612
 Jamul, CA 91935

Dear Chairwoman Pinto:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the Draft Tribal Environmental Impact Report for the Jamul Casino Hotel and Event Center Project located near State Route 94 (SR-94). The mission of Caltrans is to provide a safe and reliable transportation network that serves all people and respects the environment. The Local Development Review (LDR) Program reviews land use projects and plans to ensure consistency with our mission and state planning priorities.

Safety is one of Caltrans' strategic goals. Caltrans strives to make the year 2050 the first year without a single death or serious injury on California's roads. We are striving for more equitable outcomes for the transportation network's diverse users. To achieve these ambitious goals, we will pursue meaningful collaboration with our partners. We encourage the implementation of new technologies, innovations, and best practices that will enhance the safety on the transportation network. These pursuits are both ambitious and urgent, and their accomplishment involves a focused departure from the status quo as we continue to institutionalize safety in all our work.

Caltrans is committed to prioritizing projects that are equitable and provide meaningful benefits to historically underserved communities, to ultimately improve transportation accessibility and quality of life for people in the communities we serve.

We look forward to working with the Jamul Indian Village (JIV) and the County of San Diego in areas where the JIV, County and Caltrans have joint jurisdiction to improve

A2-1

the transportation network and connections between various modes of travel, with the goal of improving the experience of those who use the transportation system.

Caltrans has the following comments:

Comments Relating to Traffic Impacts

- It is noted that the Proposed Project consists of remodeling the existing JIV Casino Building to include a new event center to “accommodate an approximately 25,500 square-foot outdoor, covered event venue and associated lounge areas; an approximately 9,250 sf enclosed multi-purpose/bingo hall; and associated back-of-house, restrooms, and circulation”. “The new event venue would result in a net increase of approximately 35,000 sf of enclosed, covered outdoor, and uncovered outdoor areas. No expansion of the gaming floor or increase in the number of slot machines or table games is proposed.”
- It is also noted that there will be a new Hotel and Parking structure building proposed to the west of the existing Casino Building. “The proposed 225-room hotel would consist of 16 stories including 3 levels of back-of-house, a hotel lobby level with restaurant, a spa level with outdoor deck, 10 levels of guest rooms, and a rooftop pool deck”. “The proposed parking garage will have 6 levels and provide 255 parking spaces.
- There are still pending mitigation commitments that have not been completed by the JIV associated with the significant impacts from the original scope of the JIV project and the 2016 certified environmental document.
 - Lyons Valley Road and SR-94 Signalization and improvements have been completed.
 - SR-94 and Maxfield Road roadway improvements are still pending.
 - SR-94 and Steele Canyon Road Intersection widening Improvements are still pending.
 - SR-94/Campo Road and Jamacha Road dual right-turn and other improvements are still pending.
 - SR-94/Campo Road and Jamacha Boulevard dual right-turn improvements are still pending.
 - Improvements to the Melody Road and SR-94 intersection is another unfinished mitigation commitment which is still pending.
- During the initial JIV project’s development and Traffic Study (Prior to 2013), an alternative with Hotel and Event Center was proposed but then was subsequently removed after Caltrans reviewed the study and found the traffic impacts of the added vehicle trips which were associated with the Hotel and Event Center required substantially more mitigation which would have been required throughout the SR-94 corridor. The JIV and its developers removed the

A2-2

A2-3

event center and hotel proposal from the development construction since mitigation requirements would have increased the mitigation budget.

- Table 3-20; Current Casino Trip Generation Comparison comments:
 - The “Weekend” section should be renamed “Weekday” per page 3-99 description of Table 3-20.
- Caltrans does not concur with the 70% reduction (page 3-101 to 3-102) and the “reduced trip generation rate of 3 vehicular trips per room”. The casino's expansion of new and different facilities will bring more trips, not less, as indicated in this report.
- Page 3-106; Table 3-23: Final Tribal Environmental Evaluation Mitigation and Status comments:
 - As noted above, the status of the 2013 mitigation measures as identified in TEIR Table 3-23 are not current. Caltrans' understanding of the required SR-94 improvements is that they have not been fully implemented.

A2-3
cont.

A2-4

A2-5

Table 3-23: 2013 Final Tribal Environmental Evaluation Mitigations and Status

Facility	Description of Improvement	Status
Existing Plus Project		
SR 94 (Campo Rd) & Jamacha Blvd (intersection)	Restripe NB thru shared left-turn lane to a NB thru shared right-turn lane (Including required traffic signal modifications).	JIV is processing permit for construction
SR 94 (Campo Rd) & Jamacha Rd (intersection)	Add second EB right-turn lane. Extend NB left turn lane pocket.	JIV is processing permit for construction
SR 94 (Campo Rd) & Steele Canyon Rd (intersection)	Add a second EB and WB thru lane.	JIV is in the planning and right-of-way acquisition process
SR 94 (Campo Rd) & Lyons Valley Rd (intersection)	Install Traffic Signal	Completed
SR 94 (Campo Rd) & Melody Rd (intersection)	Install Traffic Signal	JIV is in the planning and right-of-way acquisition process
	Restripe NB shared left/through/right-turn lane to a NB thru shared right-turn lane and add a NB left-turn lane. Restripe SB shared left/through/right-turn lane to a SB thru shared right-turn lane and add a NB left-turn lane.	JIV is in the planning and right-of-way acquisition process
SR 94 (Campo Rd) & Daisy Drive (intersection)	Construct a new access point for the Project	Completed
SR 94 (Campo Rd) & Maxfield Rd (intersection)	Restripe NB and SB approaches along SR 94 to include a two-way left-turn acceleration lane	JIV is processing permit for construction

A2-6

TEIR: 3.11 Transportation and Traffic

Appendix K: Trip Generation Analysis Memorandum review and comments:

- Caltrans does not concur with the following excerpt and recommends removal of this text and methodology:
 - “Typically, casinos with on-site hotel facilities implement a pricing structure for the rooms that favors casino guests. Therefore, because casino hotels primarily accommodate casino patrons, they are not considered to generate a significant number of new vehicle trips. The used trip rate of 3 vehicular trips per room accounts for this interaction between the hotel and casino.”

A2-7

This is an unsupported conclusion. It is suggested this conclusion requires substantial evidence, inferences and analysis.

- The 70% reduction from “Cache Creek Hotel Expansion Project Traffic Impact Study, dated July 2016” should not be used for the JIV Casino Hotel and Event Center project. Cache Creek Casino Resort is approximately 50 miles away from Sacramento. JIV Casino is located about 20 minutes from San Diego’s urbanized areas. This makes the JIV Casino Hotel and Event Center project easily accessible and invites more trip generation, unlike Cache Creek Casino Resort’s long commute.
- It is highly recommended that the Jamul Indian Village at least start construction of the incomplete mitigation commitments which are still pending before additional Casino expansion and Hotel development are approved. Another alternative is to condition occupancy or use of the new facilities until the previous mitigation commitments are met.
- A traffic control plan will need to be approved for handling construction-related traffic at the JIV Casino Hotel and Event Center project site. In addition, approved traffic control plans will be required for work on or affecting state routes.

A2-8

A2-9

Project Management

Currently Caltrans and JIV are in the process of finalizing agreements for the mitigation commitments which are still pending from the previous Final Environmental Impact Report for the JIV Casino project. These mitigations should be constructed prior to the completion of the proposed JIV Casino Hotel and Event Center project as identified in the current TEIR.

A2-10

Hydrology and Drainage Studies

In reference to Preliminary Drainage Study provided in Appendix D of the TEIR:

- The header and units on Table 1-1, 3-1 and 3-2 are obscured by shading. Please revise tables so that the header and units are legible.
- Please include Appendices A, B, and C as mentioned in the study.
- Please annotate Caltrans' Right-of-Way (R/W) on all plans and exhibits.
- Early coordination with Caltrans is recommended.
- Caltrans generally does not allow development projects to impact hydraulics within the State's Right-of-Way. Any modification to the existing Caltrans drainage and/or increase in runoff to State facilities will not be permitted.

A2-11

Complete Streets and Mobility Network

Caltrans views all transportation improvements as opportunities to improve safety, access and mobility for all travelers in California and recognizes bicycle, pedestrian and transit modes as integral elements of the transportation network. Caltrans supports improved transit accommodation through the provision of Park and Ride facilities, improved bicycle and pedestrian access and safety improvements, signal prioritization for transit, bus on shoulders, ramp improvements, or other enhancements that promotes a complete and integrated transportation network. Early coordination with Caltrans, in locations that may affect Caltrans, JIV, and the County of San Diego is encouraged.

To reduce greenhouse gas emissions and achieve California's Climate Change target, Caltrans is implementing Complete Streets and Climate Change policies into State Highway Operations and Protection Program (SHOPP) projects to meet multi-modal mobility needs. Caltrans looks forward to working with JIV and the County of San Diego to evaluate potential Complete Streets projects.

A2-12

Maintaining bicycle, pedestrian, and public transit access during construction is important. Mitigation to maintain bicycle, pedestrian, and public transit access during construction is in accordance with Caltrans' goals and policies.

Land Use and Smart Growth

Caltrans recognizes there is a strong link between transportation and land use. Development can have a significant impact on traffic and congestion on State transportation facilities. In particular, the pattern of land use can affect both local vehicle miles traveled and the number of trips. Caltrans supports collaboration with local agencies to work towards a safe, functional, interconnected, multi-modal

A2-13

transportation network integrated through applicable “smart growth” type land use planning and policies.

JIV and the County of San Diego should continue to coordinate with Caltrans to implement necessary improvements at intersections and interchanges where the agencies have joint jurisdiction.

A2-13
cont.

Traffic Control Plan/Hauling

Caltrans has discretionary authority with respect to highways under its jurisdiction and may, upon application and if good cause appears, issue a special permit to operate or move a vehicle or combination of vehicles or special mobile equipment of a size or weight of vehicle or load exceeding the maximum limitations specified in the California Vehicle Code. The Caltrans Transportation Permits Issuance Branch is responsible for the issuance of these special transportation permits for oversize/overweight vehicles on the State Highway network. Additional information is provided online at: <http://www.dot.ca.gov/trafficops/permits/index.html>

A2-14

A Traffic Control Plan is to be submitted to Caltrans District 11, including the interchanges at SR-94/Campo Road; SR-94/Jamacha Road; SR-94/Jamacha Boulevard; SR-94 Maxfield Road; SR-94/Melody Road; and SR-94/Steele Canyon Road, at least 30 days prior to the start of any construction. Traffic shall not be unreasonably delayed. The plan shall also outline suggested detours to use during closures, including routes and signage.

Potential impacts to the state highway facilities (SR-94) and the traveling public from the detour, demolition and other construction activities should be discussed and addressed before work begins.

Noise

The applicant must be informed that in accordance with 23 Code of Federal Regulations (CFR) 772, the Department of Transportation (Caltrans) is not responsible for existing or future traffic noise impacts associated with the existing configuration of SR-94.

A2-15

Glare

The proximity of the project site to SR-94 raises some concerns regarding potential glare that could pose a potential risk to motorists traveling on SR-94. Caltrans would want to ensure that all lighting, including reflected sunlight and

A2-16

reflected night lighting, within this project should be placed and/or shielded so as not to be hazardous to vehicles traveling on SR-94.

A2-16
cont.

Environmental

Caltrans welcomes the opportunity to be a Responsible Agency under the California Environmental Quality Act (CEQA), as we have discretionary approval authority of a portion of the proposed project which is in Caltrans' R/W. Caltrans exercises this discretionary authority through its Encroachment Permit process.

Because the issuance of an encroachment permit will be required prior to construction any work within the Caltrans' R/W the applicant must provide certified final environmental documents for this project, Findings, corresponding technical studies, and necessary regulatory and resource agency permits. Specifically, CEQA determination or exemption and supporting Findings will be required before Caltrans may issue an Encroachment Permit. As such, the supporting documents must address all environmental impacts within the Caltrans' R/W and address any significant impacts from an avoidance and/or mitigation perspective.

Caltrans recommends this project specifically identify and assesses potential significant impacts caused by the project or those impacts caused by mitigation efforts that occur within Caltrans' R/W. The analysis should include impacts to the natural environment, infrastructure including but not limited to highways, roadways, structures, intelligent transportation systems elements, on-ramps and off-ramps, and appurtenant features including but not limited to lighting, signage, drainage, guardrail, slopes and landscaping. Caltrans is interested in any additional mitigation measures identified for the project's draft Environmental Document.

A2-17

We look forward to the coordination of our efforts to ensure that Caltrans can adopt the alternative and/or mitigation measures relating to our R/W. Because Caltrans generally desires to rely on an Encroachment Permit applicant's analysis, findings and adopted mitigation, we would appreciate meeting with you to discuss the elements of the EIR that Caltrans will use for our subsequent environmental compliance.

Right-of-Way

Caltrans has the following comments relating to Right-of-Way:

- Per Business and Profession Code 8771, perpetuation of survey monuments by a licensed land surveyor is required, if they are being destroyed by any construction.

A2-18

Ms. Erica M. Pinto, Chairwoman
November 14, 2022
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Additional information regarding encroachment permits may be obtained by contacting the Caltrans Permits Office at (619) 688-6158 or emailing D11.Permits@dot.ca.gov or by visiting the website at <https://dot.ca.gov/programs/traffic-operations/ep>. Early coordination with Caltrans is strongly advised for all encroachment permits.

A2-18
cont.

If you have any questions or concerns, please contact Kimberly Dodson, LDR Coordinator, at (619) 985-1587 or by e-mail sent to Kimberly.Dodson@dot.ca.gov.

Sincerely,

Maurice A. Eaton

MAURICE EATON
Branch Chief
Local Development Review



County of San Diego

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DAHVIA LYNCH
 DIRECTOR

November 14, 2022

Honorable Erica M. Pinto
 Chairwoman, Jamul Indian Village of California
 P.O. Box 612
 Jamul, CA 91935

Sent via email to: Admin@JamulTEIR.com

REQUEST FOR COMMENTS ON THE DRAFT TRIBAL ENVIRONMENTAL IMPACT REPORT ON THE JAMUL CASINO HOTEL AND EVENT CENTER PROJECT FOR THE JAMUL INDIAN VILLAGE

Dear Chairwoman Pinto,

The County of San Diego (County) staff reviewed the Draft Tribal Environmental Impact Report (TEIR) for the Jamul Indian Village's Jamul Casino Hotel and Event Center Project (Project), dated September 30, 2022.

County staff appreciates the opportunity to review the Project and offers the following comments for your consideration.

GENERAL

1. The County's Land Use and Environment Group (LUEG) has developed Guidelines for Determining Significance that are typically used to determine the significance of environmental impacts and mitigation options for addressing potentially significant impacts in the unincorporated portions of the county. These guidelines may be helpful to the Jamul Indian Village in evaluating off-reservation impacts. They are available online at the link below, and County staff is available to share and discuss them with Jamul Indian Village. <http://www.sandiegocounty.gov/pds/procguid.html>.

A3-1

2. **Dark Skies & Light Pollution**

To maintain dark skies and promote astronomical research, the County has adopted the Light Pollution Code to guide the mitigation of outdoor lighting impacts in the unincorporated area. The County is available to discuss and share measures adopted in the Light Pollution Code, such as fully shielding lighting and limiting decorative lighting for any potential future uses of the property.

A3-2

3. Wastewater Treatment

The County appreciates the Jamul Tribe's efforts to treat and reuse wastewater generated by the Project onsite and encourages the implementation of measures to reduce the overall wastewater needed to be trucked offsite for treatment. The County recommends the tribe continue to pursue measures to reduce the wastewater generated onsite and the need to truck wastewater offsite.

A3-3

4. Construction Traffic

Given the anticipated construction, the County would be happy to work collaboratively with Jamul Indian Village and Caltrans to assist in the development of a traffic control plan that can be implemented by the contractor to help ensure traffic flows smoothly in the community during construction.

A3-4

DEPARTMENT OF PUBLIC WORKS - TRAFFIC

1. The Draft TEIR (Section 3.11) and Kimley-Horn Trip Generation Analysis (Appendix K) conclude that based on 2022 traffic count data the casino operations generate less peak period traffic than what was estimated in the original 2013 Jamul Casino traffic analysis. Subsequently, the TEIR indicates that the existing casino traffic plus the added proposed expansion project peak period traffic will not require additional mitigation beyond the mitigation measures identified in the 2013 casino study (TEIR Table 3-23). Jamul Casino's entrance is along State Route 94, which is managed by Caltrans, therefore, we recommend the Jamul Indian Village coordinate with Caltrans regarding the TEIR and TGA findings and confirm that no further mitigation measures for SR-94 facilities are needed for the proposed hotel and event center expansion.

A3-5

2. The County would like to partner with Jamul Indian Village and Caltrans to collectively confirm that the status of the 2013 mitigation measures as identified in TEIR Table 3-23 are up-to-date and verify the implementation timelines for the required SR-94 improvements. The County would like to work collaboratively with Jamul Indian Village and Caltrans to address any pending matters related to planned SR-94 improvements and to help ensure that all 2013 mitigation measures are progressing towards completion.

A3-6

3. Community members have expressed that traffic along SR-94 has become congested during previous special events at the Jamul Casino. Given the anticipated construction of a new event center, the County would be happy to work collaboratively with Jamul Indian Village and Caltrans to develop special event traffic management plans to help ensure future event center traffic flows smoothly in the community. This could also include identifying the upcoming event center activities that will utilize the maximum seating capacity and implement the special event traffic management plans.

A3-7

DEPARTMENT OF PUBLIC WORKS - ROADS FIELD ENGINEERING

1. If future construction or mitigation measures impact a County-maintained road, the County's Cut Policy may apply. The policy states that if any County-maintained roads are trenched or cut within 3 years after the road is resurfaced, the project is to resurface the full width of the road with the same treatment. The County would be happy to discuss this policy in more detail if Jamul Indian Village or its contractors perform work on a County-maintained Road as part of the Project. Please coordinate with Lawrence Hirsch, Utility

A3-8

Coordinator, for any updates or questions at (858) 694-2215 or at lawrence.hirsch@sdcountry.ca.gov.

SAN DIEGO COUNTY FIRE PROTECTION DISTRICT

1. Across State Route 94 from the Jamul Casino's entrance is San Diego County Fire Protection District (County Fire) Station 36, which provides emergency response service to the Jamul Casino and surrounding community. County Fire is currently analyzing the emergency response services needed to adequately serve the Jamul Casino once the Project is complete. Once our analysis is complete, County Fire would appreciate an opportunity to discuss any additional resources required to continue providing effective emergency services to Jamul Indian Village.

A3-9

SAN DIEGO COUNTY SHERIFF'S DEPARTMENT

1. The San Diego County Sheriff's Department currently provides one Special Purpose Officer (SPO) for law enforcement services to the Jamul Casino. The completion of this Project is expected to increase customers and visitors to the Jamul Casino, which may increase the need for law enforcement services to the property and surrounding area. We understand that Jamul Indian Village is in the process of creating a Tribal Police Department, which could provide the law enforcement services needed when the Project is complete. If needed, the Sheriff's Department would be happy to continue providing law enforcement services to the Jamul Indian Village and would greatly appreciate an opportunity to discuss the additional resources required to provide effective law enforcement services once the Project is complete.

A3-10

The County appreciates the opportunity to comment on this Project. We look forward to receiving future documents related to this Project and providing additional assistance, at your request. If you have any questions regarding these comments, please contact Timothy Vertino, Land Use / Environmental Planner, at (858) 505-6677, or via e-mail at timothy.vertino@sdcountry.ca.gov.

Sincerely,

Mark Slovick

Mark Slovick
Deputy Director
Planning & Development Services

Enclosure: County Comments on Notice of Preparation, Jun. 17, 2022

cc: Bibiana Alvarez, Principal, Acorn Environmental
Ryan Sawyer, Project Director, Acorn Environmental
Gregory Kazmer, Land Use Director, Board of Supervisors, District 2
Sarah Aghassi, Deputy Chief Administrative Officer, LUEG
Jeff Collins, Director, San Diego County Fire
Tony Mecham, Fire Chief, San Diego County Fire

Chairwoman Pinto
November 14, 2022
Page 4

Dave Nissen, Deputy Chief, San Diego County Fire
Derek Gade, Acting Director, DPW
Murali Pasumarthi, Acting Deputy Director, DPW
Dahvia Lynch, Director, PDS
Mathew Glisson, Captain, Sheriff's Department
Martha Hernandez, Lieutenant, Sheriff's Department
Marvin Mayorga, CAO Staff Officer, LUEG
Sue Waters, Land Use/Environmental Planner, DPW



County of San Diego

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DAHVIA LYNCH
DIRECTOR

June 17, 2022

Honorable Erica Pinto
Chairwoman, Jamul Indian Village of California
P.O. Box 612
Jamul, CA 91935

Sent via email to: Admin@JamulTEIR.com

REQUEST FOR COMMENTS ON THE JAMUL CASINO HOTEL AND EVENT CENTER PROJECT FOR THE JAMUL INDIAN VILLAGE OF CALIFORNIA

Dear Chairwoman Pinto,

The County of San Diego (County) staff reviewed the Jamul Indian Village of California's (Jamul Indian Village) Notice of Preparation (NOP) of an Off-Reservation Tribal Environmental Impact Report (TEIR) for the Jamul Casino Hotel and Event Center Project (Project), dated May 19, 2022.

County staff appreciates the opportunity to participate in the review process for this NOP and we would like to thank you and your team for taking time to meet with us on June 16 to discuss our initial comments. This letter responds to the NOP's request for comments regarding Off-Reservation environmental issues and reasonable mitigation measures that the Jamul Indian Village could explore in the TEIR.

DEPARTMENT OF PUBLIC WORKS – WATERSHED PROTECTION

This project site drains into Willow Creek and other nearby Off-Reservation drainage systems and then flows southward for approximately 1.8 miles before entering Jamul Creek. Jamul Creek is considered an impaired waterbody due to the presence of pollutants at levels exceeding the State water quality standards. Development activities, even those located within previously disturbed and paved areas, have the potential to increase pollutants and bacteria, further impairing surface water resources. For this reason, the County respectfully requests that Off-Reservation water quality and water quantity impacts be analyzed as part of the TEIR.

The County has a wide array of information on stormwater quantity and quality mitigation measures such as post-construction treatment control Best Management Practices (BMPs), Low Impact Development, Source Control BMPs, hydromodification management practices, and construction BMPs. The County, in partnership with the cities of Chula Vista, Coronado, Imperial Beach, La Mesa, Lemon Grove, National City, and San Diego, the San Diego County Regional

Airport Authority, and the San Diego Unified Port District, have also developed a Water Quality Improvement Plan (WQIP) for the watershed. The WQIP consists of a framework of strategies to address impairments in the watershed. The County would welcome the opportunity to provide this information to the Jamul Indian Village in furtherance of our shared interest in protecting water quality and aquatic habitats.

DEPARTMENT OF PUBLIC WORKS – TRAFFIC

The County appreciates the statements within the NOP identifying that the Project may increase traffic volumes on public roads and possibly reduce their levels of service. We also appreciate the Jamul Indian Village's proactiveness and willingness to identify mitigation measures in the TEIR to address any potentially significant impacts. Jamul Casino's entrance is along State Route 94, which is managed by CALTRANS, but the Project may impact traffic on County-maintained roads. Consequently, the County respectfully requests that the TEIR include a traffic impact report, which will aid the Jamul Indian Village and County in identifying areas of potential concern. As we shared during our meeting on June 16, the County would be happy to meet with Jamul Indian Village and your Project consultants, Acorn Environmental, to discuss the potential scope of a traffic impact report. Upon completion of a traffic impact report, we would also welcome an opportunity to review it alongside CALTRANS to identify the most effective projects to mitigate traffic issues.

SAN DIEGO COUNTY FIRE PROTECTION DISTRICT

Across State Route 94 from the Jamul Casino's entrance is San Diego County Fire Protection District Station 36, which provides emergency response service to the Jamul Casino and surrounding community. As mentioned above, the County greatly appreciates the Jamul Indian Village's proactiveness and willingness to consider traffic impacts and mitigation measures as part of the TEIR. We respectfully request the future TEIR include an analysis of impacts any increased traffic will have on Station 36's access to State Route 94. Upon completion of an analysis, the County would welcome an opportunity to discuss potential mitigation measures with the Jamul Indian Village and CALTRANS to address impacts to ingress and egress from Station 36.

The County appreciates the opportunity to comment on the Project TEIR NOP. We look forward to receiving future documents related to the Project and providing any additional assistance that you request. If you have any questions regarding these comments, please contact me at 619-613-5197 or Scott.Christman@sdcounty.ca.gov.

Sincerely,



Scott Christman
Group Program Manager, Long Range Planning Division
Planning & Development Services

cc: Bibiana Alvarez, Principal, Acorn Environmental
Ryan Sawyer, Project Director, Acorn Environmental
Sarah Aghassi, Deputy Chief Administrative Officer, LUEG
Tony Mecham, Fire Chief, San Diego County Fire
Dave Nissen, Deputy Chief, San Diego County Fire
David Sibbet, Fire Services Coordinator, San Diego County Fire
Derek Gade, Assistant Director, DPW
Richard Whipple, Deputy Director, DPW
Murali Pasumarthi, Traffic Engineering Manager, DPW
Crystal Benham, LUEG Program Manager, DPW

Comments Re: NOC for the Jamul Casino Hotel and Event Center Project



Mon 10/17/2022 5:44 PM

From: Dan Silver**To:** "Admin@jamulteir.com"**Cc:** David Mayer, Susan Wynn, Michael Beck

October 17, 2022

Jamul Indian Village of California

Attn: Chairwoman Erica M. Pinto

P.O. Box 612

Jamul, CA 91935

RE: Comments Re: NOC for the Jamul Casino Hotel and Event Center Project

Endangered Habitats League (EHL) appreciates the opportunity to comment. Our primary concern is biological resources; high quality protected habitat surrounds the site. We note attention in the draft TEIR to noise and night lighting. We did not, however, find any analysis of the impacts of glass-enclosed structures on birds. Glass is not visually recognized by birds as a barrier. The problem is compounded by night lighting, which disorients the birds. Resulting collisions with buildings are the cause of injury and mortality to these species on a massive scale.

Fortunately, there are many mitigation measure available to reduce these deadly collisions. *We suggest consultation by your architect with experts to find the best bird-safe solutions for the facility.* American Bird Conservancy has a dedicated expert who can help: Christine Sheppard <csheppard@abcbirds.org>

We believe that the Jamul Casino Hotel and Event Center Project can play a leadership role in the San Diego region on bird-safe construction. To date, this issue has garnered little attention. EHL would be please to assist in publicity for a bird-safe project and in appropriate recognition for leadership.

RESOURCES

<https://abcbirds.org/glass-collisions/>

<https://abcbirds.org/news/new-lighting-collisions-recommendations/>

<https://www.audubon.org/news/reducing-collisions-glass>

<https://www.fws.gov/story/threats-birds-collisions-buildings-glass>

<https://synergillc.com/bird-friendly-glass/>

<https://glas-pro.com/products/bird-safe-glass/>

Please let me know of questions or if more information would be helpful.

Yours truly,
Dan Silver

Dan Silver, Executive Director
Endangered Habitats League
8424 Santa Monica Blvd., Suite A 592
Los Angeles, CA 90069-4267

O1-1

10/18/22, 1:52 PM

Comments Re: NOC for the Jamul Casino Hotel and Event Center Project

213-804-2750
dsilverla@me.com
<https://ehleague.org>

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 F: (626) 389-5414
 E: info@mitschsailaw.com



Mitchell M. Tsai
 Attorney At Law

139 South Hudson Avenue
 Suite 200
 Pasadena, California 91101

VIA E-MAIL

October 10, 2022

Chairwoman Erica M. Pinto
 Jamul Indian Village of California
 P.O. Box 612
 Jamul, CA 91935
 EM: admin@jamulteir.com

**RE: Jamul Indian Village's Jamul Casino Hotel and Event Center
 Project (SCH#: 2022050410).**

Dear Chairwoman Erica M. Pinto,

On behalf of the Southwest Regional Council of Carpenters (“**Southwest Carpenters**” or “**SWRCC**”), my Office is submitting these comments for the Jamul Indian Village’s (“**Village**”) Community Planning Group Meeting for the Jamul Casino Hotel and Event Center Project (“**Project**”).

The Southwest Carpenters is a labor union representing 57,000 union carpenters in six states, including California, and has a strong interest in well-ordered land use planning and in addressing the environmental impacts of development projects.

Individual members of the Southwest Carpenters live, work, and recreate in the Village and surrounding communities and would be directly affected by the Project’s environmental impacts.

The Southwest Carpenters expressly reserves the right to supplement these comments at or prior to hearings on the Project, and at any later hearing and proceeding related to this Project. Gov. Code, § 65009, subd. (b); Pub. Res. Code, § 21177, subd. (a); see *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal.App.4th 1184, 1199-1203; see also *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal.App.4th 1109, 1121.

The Southwest Carpenters incorporates by reference all comments raising issues regarding the Environmental Impact Report (EIR) submitted prior to certification of the EIR for the Project. See *Citizens for Clean Energy v City of Woodland* (2014) 225

Cal.App.4th 173, 191 (finding that any party who has objected to the project’s environmental documentation may assert any issue timely raised by other parties).

Moreover, the Southwest Carpenters requests that the Village provide notice for any and all notices referring or related to the Project issued under the California Environmental Quality Act (**CEQA**) (Pub. Res. Code, § 21000 *et seq.*), and the California Planning and Zoning Law (“**Planning and Zoning Law**”) (Gov. Code, §§ 65000–65010). California Public Resources Code Sections 21092.2, and 21167(f) and California Government Code Section 65092 require agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency’s governing body.

O2-1
cont.

The Village should require the Project to be built using a local workers who have graduated from a Joint Labor-Management Apprenticeship Program approved by the State of California, have at least as many hours of on-the-job experience in the applicable craft which would be required to graduate from such a state-approved apprenticeship training program, or who are registered apprentices in a state-approved apprenticeship training program.

Community benefits such as local hire can also be helpful to reduce environmental impacts and improve the positive economic impact of the Project. Local hire provisions requiring that a certain percentage of workers reside within 10 miles or less of the Project site can reduce the length of vendor trips, reduce greenhouse gas emissions, and provide localized economic benefits. As environmental consultants Matt Hagemann and Paul E. Rosenfeld note:

O2-2

[A]ny local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the reduction would vary based on the location and urbanization level of the project site.

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling.

Workforce requirements promote the development of skilled trades that yield sustainable economic development. As the California Workforce Development Board and the University of California, Berkeley Center for Labor Research and Education concluded:

[L]abor should be considered an investment rather than a cost—and investments in growing, diversifying, and upskilling California’s workforce can positively affect returns on climate mitigation efforts. In other words, well-trained workers are key to delivering emissions reductions and moving California closer to its climate targets.¹

Furthermore, workforce policies have significant environmental benefits given that they improve an area’s jobs-housing balance, decreasing the amount and length of job commutes and the associated greenhouse gas (GHG) emissions. In fact, on May 7, 2021, the South Coast Air Quality Management District found that that the “[u]se of a local state-certified apprenticeship program” can result in air pollutant reductions.²

Cities are increasingly incorporating local workforce policies and requirements into general plans and municipal codes. For example, the City of Hayward’s 2040 General Plan requires the city to “promote local hiring . . . to help achieve a more positive jobs-housing balance, and reduce regional commuting, gas consumption, and greenhouse gas emissions.”³

The City of Hayward has even gone as far as incorporating a Skilled Labor Force policy into its Downtown Specific Plan and municipal code, requiring developments in its downtown area to require that the City “[c]ontribute to the stabilization of regional construction markets by spurring applicants of housing and nonresidential developments to require contractors to utilize apprentices from state-approved joint labor-management training programs[.]”⁴ The City of Hayward mandates the same measure on all projects that are 30,000 square feet or larger.⁵

¹ California Workforce Development Board (2020) Putting California on the High Road: A Jobs and Climate Action Plan for 2030 at p. ii, *available at* <https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf>.

² South Coast Air Quality Management District (May 7, 2021) Certify Final Environmental Assessment and Adopt Proposed Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions Program, and Proposed Rule 316 – Fees for Rule 2305, Submit Rule 2305 for Inclusion Into the SIP, and Approve Supporting Budget Actions, *available at* <http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10>.

³ City of Hayward (2014) Hayward 2040 General Plan Policy Document at p. 3-99, *available at* https://www.hayward-ca.gov/sites/default/files/documents/General_Plan_FINAL.pdf.

⁴ City of Hayward (2019) Hayward Downtown Specific Plan at p. 5-24, *available at* <https://www.hayward-ca.gov/sites/default/files/Hayward%20Downtown%20Specific%20Plan.pdf>.

⁵ City of Hayward Municipal Code, Chapter 10, § 28.5.3.020(C).

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cont.

Locating jobs closer to residential areas can have significant environmental benefits. As the California Planning Roundtable noted in 2008:

People who live and work in the same jurisdiction would be more likely to take transit, walk, or bicycle to work than residents of less balanced communities and their vehicle trips would be shorter. Benefits would include potential reductions in both vehicle miles traveled and vehicle hours traveled.⁶

Moreover, local hire mandates and skill-training are critical facets of a strategy to reduce vehicle miles traveled (VMT). As planning experts Robert Cervero and Michael Duncan have noted, simply placing jobs near housing stock is insufficient to achieve VMT reductions given that the skill requirements of available local jobs must match those held by local residents.⁷ Some municipalities have even tied local hire and other workforce policies to local development permits to address transportation issues. Cervero and Duncan note that:

In nearly built-out Berkeley, CA, the approach to balancing jobs and housing is to create local jobs rather than to develop new housing. The city's First Source program encourages businesses to hire local residents, especially for entry- and intermediate-level jobs, and sponsors vocational training to ensure residents are employment-ready. While the program is voluntary, some 300 businesses have used it to date, placing more than 3,000 city residents in local jobs since it was launched in 1986. When needed, these carrots are matched by sticks, since the city is not shy about negotiating corporate participation in First Source as a condition of approval for development permits.

Therefore, the Village should consider utilizing local workforce policies and requirements to benefit the local area economically and to mitigate greenhouse gas, improve air quality, and reduce transportation impacts.

⁶ California Planning Roundtable (2008) Deconstructing Jobs-Housing Balance at p. 6, available at <https://cproundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf>

⁷ Cervero, Robert and Duncan, Michael (2006) Which Reduces Vehicle Travel More: Jobs-Housing Balance or Retail-Housing Mixing? Journal of the American Planning Association 72 (4), 475-490, 482, available at <http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf>.

A. The Village should Impose Training Requirements for the Project’s Construction Activities to Prevent Community Spread of COVID-19 and Other Infectious Diseases.

Construction work has been defined as a Lower to High-risk activity for COVID-19 spread by the Occupations Safety and Health Administration. Recently, several construction sites have been identified as sources of community spread of COVID-19.⁸

Southwest Carpenters recommend that the Lead Agency adopt additional requirements to mitigate public health risks from the Project’s construction activities. Southwest Carpenters requests that the Lead Agency require safe on-site construction work practices as well as training and certification for any construction workers on the Project Site.

In particular, based upon Southwest Carpenters’ experience with safe construction site work practices, Southwest Carpenters recommends that the Lead Agency require that while construction activities are being conducted at the Project Site:

Construction Site Design:

- The Project Site will be limited to two controlled entry points.
- Entry points will have temperature screening technicians taking temperature readings when the entry point is open.
- The Temperature Screening Site Plan shows details regarding access to the Project Site and Project Site logistics for conducting temperature screening.
- A 48-hour advance notice will be provided to all trades prior to the first day of temperature screening.
- The perimeter fence directly adjacent to the entry points will be clearly marked indicating the appropriate 6-foot social distancing position for when you approach the screening

⁸ Santa Clara County Public Health (June 12, 2020) COVID-19 CASES AT CONSTRUCTION SITES HIGHLIGHT NEED FOR CONTINUED VIGILANCE IN SECTORS THAT HAVE REOPENED, available at <https://www.sccgov.org/sites/covid19/Pages/press-release-06-12-2020-cases-at-construction-sites.aspx>.

area. Please reference the Apex temperature screening site map for additional details.

- There will be clear signage posted at the project site directing you through temperature screening.
- Provide hand washing stations throughout the construction site.

Testing Procedures:

- The temperature screening being used are non-contact devices.
- Temperature readings will not be recorded.
- Personnel will be screened upon entering the testing center and should only take 1-2 seconds per individual.
- Hard hats, head coverings, sweat, dirt, sunscreen or any other cosmetics must be removed on the forehead before temperature screening.
- Anyone who refuses to submit to a temperature screening or does not answer the health screening questions will be refused access to the Project Site.
- Screening will be performed at both entrances from 5:30 am to 7:30 am.; main gate [ZONE 1] and personnel gate [ZONE 2]
- After 7:30 am only the main gate entrance [ZONE 1] will continue to be used for temperature testing for anybody gaining entry to the project site such as returning personnel, deliveries, and visitors.
- If the digital thermometer displays a temperature reading above 100.0 degrees Fahrenheit, a second reading will be taken to verify an accurate reading.
- If the second reading confirms an elevated temperature, DHS will instruct the individual that he/she will not be allowed to enter the Project Site. DHS will also instruct the

O2-3
cont.

individual to promptly notify his/her supervisor and his/her human resources (HR) representative and provide them with a copy of Annex A.

Planning

- Require the development of an Infectious Disease Preparedness and Response Plan that will include basic infection prevention measures (requiring the use of personal protection equipment), policies and procedures for prompt identification and isolation of sick individuals, social distancing (prohibiting gatherings of no more than 10 people including all-hands meetings and all-hands lunches) communication and training and workplace controls that meet standards that may be promulgated by the Center for Disease Control, Occupational Safety and Health Administration, Cal/OSHA, California Department of Public Health or applicable local public health agencies.⁹

The United Brotherhood of Carpenters and Carpenters International Training Fund has developed COVID-19 Training and Certification to ensure that Carpenter union members and apprentices conduct safe work practices. The Agency should require that all construction workers undergo COVID-19 Training and Certification before being allowed to conduct construction activities at the Project Site.

Southwest Carpenters has also developed a rigorous Infection Control Risk Assessment (“**ICRA**”) training program to ensure it delivers a workforce that understands how to identify and control infection risks by implementing protocols to protect themselves and all others during renovation and construction projects in healthcare environments.¹⁰

⁹ See also The Center for Construction Research and Training, North America’s Building Trades Unions (April 27 2020) NABTU and CPWR COVID-19 Standards for U.S. Construction Sites, available at https://www.cpwr.com/sites/default/files/NABTU_CPWR_Standards_COVID-19.pdf; Los Angeles County Department of Public Works (2020) Guidelines for Construction Sites During COVID-19 Pandemic, available at https://dpw.lacounty.gov/building-and-safety/docs/pw_guidelines-construction-sites.pdf.


¹⁰ For details concerning Southwest Carpenters’s ICRA training program, see <https://icrahealthcare.com/>.

O2-3
cont.

ICRA protocols are intended to contain pathogens, control airflow, and protect patients during the construction, maintenance and renovation of healthcare facilities. ICRA protocols prevent cross contamination, minimizing the risk of secondary infections in patients at hospital facilities.

The Village should require the Project to be built using a workforce trained in ICRA protocols.

Sincerely,



Mitchell M. Tsai

Attorneys for Southwest Regional
Council of Carpenters

Attached:

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling (Exhibit A);

Air Quality and GHG Expert Paul Rosenfeld CV (Exhibit B); and

Air Quality and GHG Expert Matt Hagemann CV (Exhibit C).

O2-3
cont.

EXHIBIT A



Technical Consultation, Data Analysis and
Litigation Support for the Environment

2656 29th Street, Suite 201
Santa Monica, CA 90405

Matt Hagemann, P.G, C.Hg.
(949) 887-9013
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Paul E. Rosenfeld, PhD
(310) 795-2335
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March 8, 2021

Mitchell M. Tsai
155 South El Molino, Suite 104
Pasadena, CA 91101

Subject: Local Hire Requirements and Considerations for Greenhouse Gas Modeling

Dear Mr. Tsai,

Soil Water Air Protection Enterprise (“SWAPE”) is pleased to provide the following draft technical report explaining the significance of worker trips required for construction of land use development projects with respect to the estimation of greenhouse gas (“GHG”) emissions. The report will also discuss the potential for local hire requirements to reduce the length of worker trips, and consequently, reduced or mitigate the potential GHG impacts.

Worker Trips and Greenhouse Gas Calculations

The California Emissions Estimator Model (“CalEEMod”) is a “statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects.”¹ CalEEMod quantifies construction-related emissions associated with land use projects resulting from off-road construction equipment; on-road mobile equipment associated with workers, vendors, and hauling; fugitive dust associated with grading, demolition, truck loading, and on-road vehicles traveling along paved and unpaved roads; and architectural coating activities; and paving.²

The number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.³

¹ “California Emissions Estimator Model.” CAPCOA, 2017, available at: <http://www.aqmd.gov/caleemod/home>.

² “California Emissions Estimator Model.” CAPCOA, 2017, available at: <http://www.aqmd.gov/caleemod/home>.

³ “CalEEMod User’s Guide.” CAPCOA, November 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.

Specifically, the number and length of vehicle trips is utilized to estimate the vehicle miles travelled (“VMT”) associated with construction. Then, utilizing vehicle-class specific EMFAC 2014 emission factors, CalEEMod calculates the vehicle exhaust, evaporative, and dust emissions resulting from construction-related VMT, including personal vehicles for worker commuting.⁴

Specifically, in order to calculate VMT, CalEEMod multiplies the average daily trip rate by the average overall trip length (see excerpt below):

$$\text{“VMT}_d = \sum (\text{Average Daily Trip Rate}_i * \text{Average Overall Trip Length}_i)$$

n Where:

n = Number of land uses being modeled.”⁵

Furthermore, to calculate the on-road emissions associated with worker trips, CalEEMod utilizes the following equation (see excerpt below):

$$\text{“Emissions}_{\text{pollutant}} = \text{VMT} * \text{EF}_{\text{running,pollutant}}$$

Where:

Emissions_{pollutant} = emissions from vehicle running for each pollutant

VMT = vehicle miles traveled

EF_{running,pollutant} = emission factor for running emissions.”⁶

Thus, there is a direct relationship between trip length and VMT, as well as a direct relationship between VMT and vehicle running emissions. In other words, when the trip length is increased, the VMT and vehicle running emissions increase as a result. Thus, vehicle running emissions can be reduced by decreasing the average overall trip length, by way of a local hire requirement or otherwise.

Default Worker Trip Parameters and Potential Local Hire Requirements

As previously discussed, the number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.⁷ In order to understand how local hire requirements and associated worker trip length reductions impact GHG emissions calculations, it is important to consider the CalEEMod default worker trip parameters. CalEEMod provides recommended default values based on site-specific information, such as land use type, meteorological data, total lot acreage, project type and typical equipment associated with project type. If more specific project information is known, the user can change the default values and input project-specific values, but the California Environmental Quality Act (“CEQA”) requires that such changes be justified by substantial evidence.⁸ The default number of construction-related worker trips is calculated by multiplying the

⁴ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 14-15.

⁵ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 23.

⁶ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 15.

⁷ “CalEEMod User’s Guide.” CAPCOA, November 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.

⁸ CalEEMod User Guide, available at: <http://www.caleemod.com/>, p. 1, 9.

number of pieces of equipment for all phases by 1.25, with the exception of worker trips required for the building construction and architectural coating phases.⁹ Furthermore, the worker trip vehicle class is a 50/25/25 percent mix of light duty autos, light duty truck class 1 and light duty truck class 2, respectively.”¹⁰ Finally, the default worker trip length is consistent with the length of the operational home-to-work vehicle trips.¹¹ The operational home-to-work vehicle trip lengths are:

“[B]ased on the *location* and *urbanization* selected on the project characteristic screen. These values were *supplied by the air districts or use a default average for the state*. Each district (or county) also assigns trip lengths for urban and rural settings” (emphasis added).¹²

Thus, the default worker trip length is based on the location and urbanization level selected by the User when modeling emissions. The below table shows the CalEEMod default rural and urban worker trip lengths by air basin (see excerpt below and Attachment A).¹³

Worker Trip Length by Air Basin		
Air Basin	Rural (miles)	Urban (miles)
Great Basin Valleys	16.8	10.8
Lake County	16.8	10.8
Lake Tahoe	16.8	10.8
Mojave Desert	16.8	10.8
Mountain Counties	16.8	10.8
North Central Coast	17.1	12.3
North Coast	16.8	10.8
Northeast Plateau	16.8	10.8
Sacramento Valley	16.8	10.8
Salton Sea	14.6	11
San Diego	16.8	10.8
San Francisco Bay Area	10.8	10.8
San Joaquin Valley	16.8	10.8
South Central Coast	16.8	10.8
South Coast	19.8	14.7
Average	16.47	11.17
Minimum	10.80	10.80
Maximum	19.80	14.70
Range	9.00	3.90

⁹ “CalEEMod User’s Guide.” CAPCOA, November 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.

¹⁰ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 15.

¹¹ “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 14.

¹² “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 21.

¹³ “Appendix D Default Data Tables.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4, p. D-84 – D-86.

As demonstrated above, default rural worker trip lengths for air basins in California vary from 10.8- to 19.8- miles, with an average of 16.47 miles. Furthermore, default urban worker trip lengths vary from 10.8- to 14.7- miles, with an average of 11.17 miles. Thus, while default worker trip lengths vary by location, default urban worker trip lengths tend to be shorter in length. Based on these trends evident in the CalEEMod default worker trip lengths, we can reasonably assume that the efficacy of a local hire requirement is especially dependent upon the urbanization of the project site, as well as the project location.

Practical Application of a Local Hire Requirement and Associated Impact

To provide an example of the potential impact of a local hire provision on construction-related GHG emissions, we estimated the significance of a local hire provision for the Village South Specific Plan (“Project”) located in the City of Claremont (“City”). The Project proposed to construct 1,000 residential units, 100,000-SF of retail space, 45,000-SF of office space, as well as a 50-room hotel, on the 24-acre site. The Project location is classified as Urban and lies within the Los Angeles-South Coast County. As a result, the Project has a default worker trip length of 14.7 miles.¹⁴ In an effort to evaluate the potential for a local hire provision to reduce the Project’s construction-related GHG emissions, we prepared an updated model, reducing all worker trip lengths to 10 miles (see Attachment B). Our analysis estimates that if a local hire provision with a 10-mile radius were to be implemented, the GHG emissions associated with Project construction would decrease by approximately 17% (see table below and Attachment C).

Local Hire Provision Net Change	
Without Local Hire Provision	
Total Construction GHG Emissions (MT CO ₂ e)	3,623
Amortized Construction GHG Emissions (MT CO ₂ e/year)	120.77
With Local Hire Provision	
Total Construction GHG Emissions (MT CO ₂ e)	3,024
Amortized Construction GHG Emissions (MT CO ₂ e/year)	100.80
% Decrease in Construction-related GHG Emissions	17%

As demonstrated above, by implementing a local hire provision requiring 10 mile worker trip lengths, the Project could reduce potential GHG emissions associated with construction worker trips. More broadly, any local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the reduction would vary based on the location and urbanization level of the project site.

This serves as an example of the potential impacts of local hire requirements on estimated project-level GHG emissions, though it does not indicate that local hire requirements would result in reduced construction-related GHG emission for all projects. As previously described, the significance of a local hire requirement depends on the worker trip length enforced and the default worker trip length for the project’s urbanization level and location.

¹⁴ “Appendix D Default Data Tables.” CAPCOA, October 2017, available at: http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4, p. D-85.

Disclaimer

SWAPE has received limited discovery. Additional information may become available in the future; thus, we retain the right to revise or amend this report when additional information becomes available. Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the scope of work, work methodologies and protocols, site conditions, analytical testing results, and findings presented. This report reflects efforts which were limited to information that was reasonably accessible at the time of the work, and may contain informational gaps, inconsistencies, or otherwise be incomplete due to the unavailability or uncertainty of information obtained or provided by third parties.

Sincerely,



Matt Hagemann, P.G., C.Hg.



Paul E. Rosenfeld, Ph.D.

Attachment A

Location Type	Location Name	Rural H-W (miles)	Urban H-W (miles)
Air Basin	Great Basin	16.8	10.8
Air Basin	Lake County	16.8	10.8
Air Basin	Lake Tahoe	16.8	10.8
Air Basin	Mojave Desert	16.8	10.8
Air Basin	Mountain	16.8	10.8
Air Basin	North Central	17.1	12.3
Air Basin	North Coast	16.8	10.8
Air Basin	Northeast	16.8	10.8
Air Basin	Sacramento	16.8	10.8
Air Basin	Salton Sea	14.6	11
Air Basin	San Diego	16.8	10.8
Air Basin	San Francisco	10.8	10.8
Air Basin	San Joaquin	16.8	10.8
Air Basin	South Central	16.8	10.8
Air Basin	South Coast	19.8	14.7
Air District	Amador County	16.8	10.8
Air District	Antelope Valley	16.8	10.8
Air District	Bay Area AQMD	10.8	10.8
Air District	Butte County	12.54	12.54
Air District	Calaveras	16.8	10.8
Air District	Colusa County	16.8	10.8
Air District	El Dorado	16.8	10.8
Air District	Feather River	16.8	10.8
Air District	Glenn County	16.8	10.8
Air District	Great Basin	16.8	10.8
Air District	Imperial County	10.2	7.3
Air District	Kern County	16.8	10.8
Air District	Lake County	16.8	10.8
Air District	Lassen County	16.8	10.8
Air District	Mariposa	16.8	10.8
Air District	Mendocino	16.8	10.8
Air District	Modoc County	16.8	10.8
Air District	Mojave Desert	16.8	10.8
Air District	Monterey Bay	16.8	10.8
Air District	North Coast	16.8	10.8
Air District	Northern Sierra	16.8	10.8
Air District	Northern	16.8	10.8
Air District	Placer County	16.8	10.8
Air District	Sacramento	15	10

Air District	San Diego	16.8	10.8
Air District	San Joaquin	16.8	10.8
Air District	San Luis Obispo	13	13
Air District	Santa Barbara	8.3	8.3
Air District	Shasta County	16.8	10.8
Air District	Siskiyou County	16.8	10.8
Air District	South Coast	19.8	14.7
Air District	Tehama County	16.8	10.8
Air District	Tuolumne	16.8	10.8
Air District	Ventura County	16.8	10.8
Air District	Yolo/Solano	15	10
County	Alameda	10.8	10.8
County	Alpine	16.8	10.8
County	Amador	16.8	10.8
County	Butte	12.54	12.54
County	Calaveras	16.8	10.8
County	Colusa	16.8	10.8
County	Contra Costa	10.8	10.8
County	Del Norte	16.8	10.8
County	El Dorado-Lake	16.8	10.8
County	El Dorado-	16.8	10.8
County	Fresno	16.8	10.8
County	Glenn	16.8	10.8
County	Humboldt	16.8	10.8
County	Imperial	10.2	7.3
County	Inyo	16.8	10.8
County	Kern-Mojave	16.8	10.8
County	Kern-San	16.8	10.8
County	Kings	16.8	10.8
County	Lake	16.8	10.8
County	Lassen	16.8	10.8
County	Los Angeles-	16.8	10.8
County	Los Angeles-	19.8	14.7
County	Madera	16.8	10.8
County	Marin	10.8	10.8
County	Mariposa	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Merced	16.8	10.8
County	Modoc	16.8	10.8
County	Mono	16.8	10.8
County	Monterey	16.8	10.8
County	Napa	10.8	10.8

County	Nevada	16.8	10.8
County	Orange	19.8	14.7
County	Placer-Lake	16.8	10.8
County	Placer-Mountain	16.8	10.8
County	Placer-	16.8	10.8
County	Plumas	16.8	10.8
County	Riverside-	16.8	10.8
County	Riverside-	19.8	14.7
County	Riverside-Salton	14.6	11
County	Riverside-South	19.8	14.7
County	Sacramento	15	10
County	San Benito	16.8	10.8
County	San Bernardino-	16.8	10.8
County	San Bernardino-	19.8	14.7
County	San Diego	16.8	10.8
County	San Francisco	10.8	10.8
County	San Joaquin	16.8	10.8
County	San Luis Obispo	13	13
County	San Mateo	10.8	10.8
County	Santa Barbara-	8.3	8.3
County	Santa Barbara-	8.3	8.3
County	Santa Clara	10.8	10.8
County	Santa Cruz	16.8	10.8
County	Shasta	16.8	10.8
County	Sierra	16.8	10.8
County	Siskiyou	16.8	10.8
County	Solano-	15	10
County	Solano-San	16.8	10.8
County	Sonoma-North	16.8	10.8
County	Sonoma-San	10.8	10.8
County	Stanislaus	16.8	10.8
County	Sutter	16.8	10.8
County	Tehama	16.8	10.8
County	Trinity	16.8	10.8
County	Tulare	16.8	10.8
County	Tuolumne	16.8	10.8
County	Ventura	16.8	10.8
County	Yolo	15	10
County	Yuba	16.8	10.8
Statewide	Statewide	16.8	10.8

Worker Trip Length by Air Basin		
Air Basin	Rural (miles)	Urban (miles)
Great Basin Valleys	16.8	10.8
Lake County	16.8	10.8
Lake Tahoe	16.8	10.8
Mojave Desert	16.8	10.8
Mountain Counties	16.8	10.8
North Central Coast	17.1	12.3
North Coast	16.8	10.8
Northeast Plateau	16.8	10.8
Sacramento Valley	16.8	10.8
Salton Sea	14.6	11
San Diego	16.8	10.8
San Francisco Bay Area	10.8	10.8
San Joaquin Valley	16.8	10.8
South Central Coast	16.8	10.8
South Coast	19.8	14.7
Average	16.47	11.17
Minimum	10.80	10.80
Maximum	19.80	14.70
Range	9.00	3.90

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27

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tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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2.1 Overall Construction
Unmitigated Construction

Year	tons/yr										MT/yr					
	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
2021	0.1713	1.8242	1.1662	2.4000e-003	0.4169	0.0817	0.4986	0.1795	0.0754	0.2549	0.0000	213.1969	213.1969	0.0601	0.0000	214.6993
2022	0.6904	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.682 ₆	1,721.682 ₆	0.1294	0.0000	1,724.918 ₇
2023	0.6148	3.3649	5.6747	0.0178	1.1963	0.0996	1.2959	0.3203	0.0935	0.4138	0.0000	1,627.529 ₅	1,627.529 ₅	0.1185	0.0000	1,630.492 ₅
2024	4.1619	0.1335	0.2810	5.9000e-004	0.0325	6.4700e-003	0.0390	8.6300e-003	6.0400e-003	0.0147	0.0000	52.9078	52.9078	8.0200e-003	0.0000	53.1082
Maximum	4.1619	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.682₆	1,721.682₆	0.1294	0.0000	1,724.918₇

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

2.1 Overall Construction Mitigated Construction

Year	tons/yr										MT/yr					
	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
2021	0.1713	1.8242	1.1662	2.4000e-003	0.4169	0.0817	0.4986	0.1795	0.0754	0.2549	0.0000	213.1967	213.1967	0.0601	0.0000	214.6991
2022	0.6904	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.6823	1,721.6823	0.1294	0.0000	1,724.9183
2023	0.6148	3.3648	5.6747	0.0178	1.1963	0.0996	1.2959	0.3203	0.0935	0.4138	0.0000	1,627.5291	1,627.5291	0.1185	0.0000	1,630.4921
2024	4.1619	0.1335	0.2810	5.9000e-004	0.0325	6.4700e-003	0.0390	8.6300e-003	6.0400e-003	0.0147	0.0000	52.9077	52.9077	8.0200e-003	0.0000	53.1082
Maximum	4.1619	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.6823	1,721.6823	0.1294	0.0000	1,724.9183

Percent Reduction	tons/quarter										tons/quarter					
	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
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	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOx (tons/quarter)	Maximum Mitigated ROG + NOx (tons/quarter)
1	9-1-2021	11-30-2021	1.4103	1.4103
2	12-1-2021	2-28-2022	1.3613	1.3613
3	3-1-2022	5-31-2022	1.1985	1.1985
4	6-1-2022	8-31-2022	1.1921	1.1921
5	9-1-2022	11-30-2022	1.1918	1.1918
6	12-1-2022	2-28-2023	1.0774	1.0774
7	3-1-2023	5-31-2023	1.0320	1.0320
8	6-1-2023	8-31-2023	1.0260	1.0260

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9	9-1-2023	11-30-2023	1.0265	1.0265
10	12-1-2023	2-29-2024	2.8857	2.8857
11	3-1-2024	5-31-2024	1.6207	1.6207
		Highest	2.8857	2.8857

**2.2 Overall Operational
Unmitigated Operational**

Category	tons/yr										MT/yr					
	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
Area	5.1437	0.2950	10.3804	1.6700e-003	0.0714	0.0714	0.0714	0.0714	0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	3.896.0732	3.896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7.620.4986	7.620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	6.8692	9.5223	30.3407	0.0914	7.7979	0.2260	8.0240	2.0895	0.2219	2.3114	236.9712	12,294.1807	12,531.1519	15.7904	0.1260	12,963.4751

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2.2 Overall Operational

Mitigated Operational

Category	tons/yr										MT/yr					
	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
Area	5.1437	0.2950	10.3804	1.6700e-003	0.0714	0.0714	0.0714	0.0714	0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	3.896.073 ₂	3.896.073 ₂	0.1303	0.0468	3.913.283 ₃
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7.620.498 ₆	7.620.498 ₆	0.3407	0.0000	7.629.016 ₂
Waste						0.0000	0.0000	0.0000	0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000	0.0000	0.0000	0.0000	29.1632	586.6420	585.8052	3.0183	0.0755	683.7567
Total	6.8692	9.5223	30.3407	0.0914	7.7979	0.2260	8.0240	2.0895	0.2219	2.3114	236.9712	12,294.1807	12,531.1519	15.7904	0.1260	12,963.4751

Percent Reduction	tons/yr										MT/yr					
	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
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	0.00

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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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	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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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	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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
tons/yr																
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004	0.0233	0.0233	0.0233	0.0216	0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	0.0475	0.4716	0.3235	5.8000e-004	0.0496	0.0233	0.0729	0.0216	0.0216	0.0291	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
MT/yr																

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3.2 Demolition - 2021

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
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	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	2.9000e-003	0.0641	0.0233	2.0000e-004	6.4100e-003	2.1000e-004	6.6200e-003	1.7300e-003	2.0000e-004	1.9300e-003	0.0000	19.6816	19.6816	1.2800e-003	0.0000	19.7136

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233	0.0216	0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	0.0475	0.4716	0.3235	5.8000e-004	0.0496	0.0233	0.0729	7.5100e-003	0.0216	0.0291	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600

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3.2 Demolition - 2021

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
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	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	2.9000e-003	0.0641	0.0233	2.0000e-004	6.4100e-003	2.1000e-004	6.6200e-003	1.7300e-003	2.0000e-004	1.9300e-003	0.0000	19.6816	19.6816	1.2800e-003	0.0000	19.7136

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061

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3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204	0.0188	0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060

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3.3 Site Preparation - 2021
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814

3.4 Grading - 2021
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003	0.0377	0.0377	0.0377	0.0347	0.0347	0.0347	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776
Total	0.0796	0.8816	0.5867	1.1800e-003	0.1741	0.0377	0.2118	0.0693	0.0347	0.1040	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776

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3.4 Grading - 2021

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607
Total	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003	0.0377	0.0377	0.0377	0.0347	0.0347	0.0347	0.0000	103.5403	103.5403	0.0335	0.0000	104.3775
Total	0.0796	0.8816	0.5867	1.1800e-003	0.1741	0.0377	0.2118	0.0693	0.0347	0.1040	0.0000	103.5403	103.5403	0.0335	0.0000	104.3775

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3.4 Grading - 2021

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607
Total	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004	5.7200e-003	5.7200e-003	5.7200e-003	5.2600e-003	5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	0.0127	0.1360	0.1017	2.2000e-004	0.0807	5.7200e-003	0.0865	0.0180	5.2600e-003	0.0233	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414

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3.4 Grading - 2022

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684
Total	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004	5.7200e-003	5.7200e-003	5.7200e-003	5.2600e-003	0.0000	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	0.0127	0.1360	0.1017	2.2000e-004	0.0807	5.7200e-003	0.0865	0.0180	5.2600e-003	0.0233	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414

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3.4 Grading - 2022

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684
Total	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684

3.5 Building Construction - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881
Total	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881

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3.5 Building Construction - 2022
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.4088	0.3066	3.5305	0.0107	1.1103	8.8700e-003	1.1192	0.2949	8.1700e-003	0.3031	0.0000	966.8117	966.8117	0.0266	0.0000	967.4773
Total	0.4616	2.0027	3.9885	0.0152	1.2243	0.0121	1.2363	0.3278	0.0112	0.3390	0.0000	1,408.795₂	1,408.795₂	0.0530	0.0000	1,410.120₈

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023	0.0963	0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877
Total	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023	0.0963	0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877

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3.5 Building Construction - 2022
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.4088	0.3066	3.5305	0.0107	1.1103	8.8700e-003	1.1192	0.2949	8.1700e-003	0.3031	0.0000	966.8117	966.8117	0.0266	0.0000	967.4773
Total	0.4616	2.0027	3.9885	0.0152	1.2243	0.0121	1.2363	0.3278	0.0112	0.3390	0.0000	1,408.795	1,408.795	0.0530	0.0000	1,410.120

3.5 Building Construction - 2023
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.1942	1.7765	2.0061	3.3300e-003	0.0864	0.0864	0.0864	0.0813	0.0813	0.0813	0.0000	286.2789	286.2789	0.0681	0.0000	287.9814
Total	0.1942	1.7765	2.0061	3.3300e-003	0.0864	0.0864	0.0864	0.0813	0.0813	0.0813	0.0000	286.2789	286.2789	0.0681	0.0000	287.9814

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3.5 Building Construction - 2023
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.3753	0.2708	3.1696	0.0101	1.0840	8.4100e-003	1.0924	0.2879	7.7400e-003	0.2957	0.0000	909.3439	909.3439	0.0234	0.0000	909.9291
Total	0.4135	1.5218	3.5707	0.0144	1.1953	9.8700e-003	1.2051	0.3200	9.1400e-003	0.3292	0.0000	1,327.3369	1,327.3369	0.0462	0.0000	1,328.4916

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811
Total	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811

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3.5 Building Construction - 2023
Mitigated Construction Off-Site

Category	tons/yr										MT/yr						
	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	
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	0.0000
Vendor	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624	
Worker	0.3753	0.2708	3.1696	0.0101	1.0840	8.4100e-003	1.0924	0.2879	7.7400e-003	0.2957	0.0000	909.3439	909.3439	0.0234	0.0000	909.9291	
Total	0.4135	1.5218	3.5707	0.0144	1.1953	9.8700e-003	1.2051	0.3200	9.1400e-003	0.3292	0.0000	1,327.3369	1,327.3369	0.0462	0.0000	1,328.4916	

3.6 Paving - 2023
Unmitigated Construction On-Site

Category	tons/yr										MT/yr						
	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	
Off-Road	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227	
Paving	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	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227	

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3.6 Paving - 2023

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	3.7000e-004	2.7000e-004	3.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8963	0.8963	2.0000e-005	0.0000	0.8968
Total	3.7000e-004	2.7000e-004	3.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8963	0.8963	2.0000e-005	0.0000	0.8968

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	6.7100e-003	0.0663	0.0948	1.5000e-004	3.3200e-003	3.3200e-003	3.3200e-003	3.0500e-003	3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000				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	6.7100e-003	0.0663	0.0948	1.5000e-004	3.3200e-003	3.3200e-003	3.3200e-003	3.0500e-003	3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227

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3.6 Paving - 2023

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	3.7000e-004	2.7000e-004	3.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8963	0.8963	2.0000e-005	0.0000	0.8968
Total	3.7000e-004	2.7000e-004	3.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8963	0.8963	2.0000e-005	0.0000	0.8968

3.6 Paving - 2024

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.0109	0.1048	0.1609	2.5000e-004	5.1500e-003	5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000				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	0.0109	0.1048	0.1609	2.5000e-004	5.1500e-003	5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073

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3.6 Paving - 2024

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	5.9000e-004	4.1000e-004	4.9200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4697	1.4697	4.0000e-005	0.0000	1.4706
Total	5.9000e-004	4.1000e-004	4.9200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4697	1.4697	4.0000e-005	0.0000	1.4706

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.0109	0.1048	0.1609	2.5000e-004	5.1500e-003	5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000				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	0.0109	0.1048	0.1609	2.5000e-004	5.1500e-003	5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073

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3.6 Paving - 2024

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	5.9000e-004	4.1000e-004	4.9200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4697	1.4697	4.0000e-005	0.0000	1.4706
Total	5.9000e-004	4.1000e-004	4.9200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4697	1.4697	4.0000e-005	0.0000	1.4706

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Archit. Coating	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	4.1404	0.0213	0.0317	5.0000e-005	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745

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3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	0.0101	6.9900e-003	0.0635	2.8000e-004	0.0307	2.3000e-004	0.0309	8.1500e-003	2.2000e-004	8.3700e-003	0.0000	24.9407	24.9407	6.1000e-004	0.0000	24.9558
Total	0.0101	6.9900e-003	0.0635	2.8000e-004	0.0307	2.3000e-004	0.0309	8.1500e-003	2.2000e-004	8.3700e-003	0.0000	24.9407	24.9407	6.1000e-004	0.0000	24.9558

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Archit. Coating	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	4.1404	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745

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3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

Category	tons/yr										MT/yr						
	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	
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	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	0.0000
Worker	0.0101	6.9900e-003	0.0635	2.8000e-004	0.0307	2.3000e-004	0.0309	8.1500e-003	2.2000e-004	8.3700e-003	0.0000	24.9407	24.9407	6.1000e-004	0.0000	24.9558	24.9558
Total	0.0101	6.9900e-003	0.0635	2.8000e-004	0.0307	2.3000e-004	0.0309	8.1500e-003	2.2000e-004	8.3700e-003	0.0000	24.9407	24.9407	6.1000e-004	0.0000	24.9558	24.9558

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Category	tons/yr											MT/yr				
	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
Mitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620,498 6	7,620,498 6	0.3407	0.0000	7,629,016 2
Unmitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620,498 6	7,620,498 6	0.3407	0.0000	7,629,016 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT		
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227		
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065		
General Office Building	288.45	62.55	31.05	706,812	706,812		
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937		
Hotel	192.00	187.50	160.00	445,703	445,703		
Quality Restaurant	501.12	511.92	461.20	707,488	707,488		
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221		
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452		

4.3 Trip Type Information

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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	H-O or C-NW	Primary	Diverted	Pass-by		
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3			
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3			
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4			
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43			
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4			
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44			
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11			

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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
MT/yr																
Electricity Mitigated						0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Electricity Unmitigated						0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
NaturalGas Mitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478
NaturalGas Unmitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478

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5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					
		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
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003	0.0487	0.0487	0.0487	0.0487	0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	97840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4268	1,383.4268	0.0265	0.0254	1,391.6478

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBtu/yr	tons/yr										MT/yr					
		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
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003	0.0487	0.0487	0.0487	0.0487	0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	97840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4268	1,383.4268	0.0265	0.0254	1,391.6478

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		2,512.6465	0.1037	0.0215	2,521.6356

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		2,512.6465	0.1037	0.0215	2,521.6356

6.0 Area Detail

6.1 Mitigation Measures Area

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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
tons/yr																
MT/yr																
Mitigated	5.1437	0.2950	10.3804	1.6700e-003	0.0714	0.0714	0.0714	0.0714	0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Unmitigated	5.1437	0.2950	10.3804	1.6700e-003	0.0714	0.0714	0.0714	0.0714	0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

6.2 Area by SubCategory

Unmitigated

SubCategory	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
tons/yr																
MT/yr																
Architectural Coating	0.4137				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003	0.0143	0.0143	0.0143	0.0143	0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004	0.0572	0.0572	0.0572	0.0572	0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	5.1437	0.2950	10.3804	1.6600e-003	0.0714	0.0714	0.0714	0.0714	0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

SubCategory	tons/yr										MT/yr					
	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
Architectural Coating	0.4137					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003	0.0143	0.0143	0.0143	0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295	
Landscaping	0.3096	0.1187	10.3054	5.4000e-004	0.0572	0.0572	0.0572	0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540	
Total	5.1437	0.2950	10.3804	1.6600e-003		0.0714	0.0714		0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835	

7.0 Water Detail

7.1 Mitigation Measures Water

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	585.8052	3.0183	0.0755	683.7567
Unmitigated	585.8052	3.0183	0.0755	683.7567

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		585.8052	3.0183	0.0755	683.7567

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		585.8052	3.0183	0.0755	683.7567

8.0 Waste Detail

8.1 Mitigation Measures Waste

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	207.8079	12.2811	0.0000	514.8354
Unmitigated	207.8079	12.2811	0.0000	514.8354

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		207.8079	12.2811	0.0000	514.8354

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed tons	Total CO2				CO2e
		CH4	N2O	MT/yr		
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834	
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513	
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464	
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430	
Hotel	27.38	5.5579	0.3285	0.0000	13.7694	
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712	
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706	
Total		207.8079	12.2811	0.0000	514.8354	

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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Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Village South Specific Plan (Proposed)
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day															
	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
2021	4.2769	46.4588	31.6840	0.0643	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,234.7974	6,234.7974	1.9495	0.0000	6,283.5352
2022	5.3304	38.8967	49.5629	0.1517	9.8688	1.6366	10.7727	3.6558	1.5057	5.1615	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288
2023	4.8957	26.3317	46.7567	0.1472	9.8688	0.7794	10.6482	2.6381	0.7322	3.3702	0.0000	14,807.5269	14,807.5269	1.0250	0.0000	14,833.1521
2024	237.1630	9.5575	15.1043	0.0244	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,361.3989	2,361.3989	0.7177	0.0000	2,379.3421
Maximum	237.1630	46.4588	49.5629	0.1517	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**2.2 Overall Operational
Unmitigated Operational**

Category	lb/day															
	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
Area	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08
Total	41.1168	67.2262	207.5497	0.6278	45.9592	2.4626	48.4217	12.2950	2.4385	14.7336	0.0000	76,811.18 16	76,811.18 16	2.8282	0.4832	77,025.87 86

Mitigated Operational

Category	lb/day															
	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
Area	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08
Total	41.1168	67.2262	207.5497	0.6278	45.9592	2.4626	48.4217	12.2950	2.4385	14.7336	0.0000	76,811.18 16	76,811.18 16	2.8282	0.4832	77,025.87 86

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

	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	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388	1.5513	1.5513	1.5513	1.4411	1.4411	1.4411		3,747.944 ₉	3,747.944 ₉	1.0549		3,774.317 ₄
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419		3,747.944₉	3,747.944₉	1.0549		3,774.317₄

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.2 Demolition - 2021

Unmitigated Construction Off-Site

Category	lb/day											lb/day				
	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
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.241 3	1,292.241 3	0.0877		1,294.433 7
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
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.1916	4.1394	1.5644	0.0136	0.4346	0.0139	0.4485	0.1176	0.0133	0.1309		1,463.056 8	1,463.056 8	0.0927		1,465.375 0

Mitigated Construction On-Site

Category	lb/day											lb/day				
	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
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.2 Demolition - 2021

Mitigated Construction Off-Site

Category	lb/day											lb/day				
	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
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.2413	1,292.2413	0.0877		1,294.4337
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
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.1916	4.1394	1.5644	0.0136	0.4346	0.0139	0.4485	0.1176	0.0133	0.1309		1,463.0568	1,463.0568	0.0927		1,465.3750

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

Category	lb/day											lb/day				
	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
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445	1.8809		1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549	204.9786	204.9786	204.9786	6.0400e-003	205.1296	205.1296	205.1296
Total	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549	204.9786	204.9786	204.9786	6.0400e-003	205.1296	205.1296	205.1296

Mitigated Construction On-Site

Category	lb/day																
	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	
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	2.0445	2.0445	2.0445	1.8809	1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573	3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573	3,715.4573

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 2021
Mitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549	204.9786	204.9786	204.9786	6.0400e-003	205.1296	205.1296	205.1296
Total	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549	204.9786	204.9786	204.9786	6.0400e-003	205.1296	205.1296	205.1296

3.4 Grading - 2021
Unmitigated Construction On-Site

Category	lb/day																
	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	
Fugitive Dust	4.1912	46.3998	30.8785	0.0620	8.6733	0.0000	8.6733	3.5965	0.0000	3.5965	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265	6,007.0434	6,007.0434	6,007.0434	1.9428	6,055.6134	6,055.6134	6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	6,007.0434	6,007.0434	6,007.0434	1.9428	6,055.6134	6,055.6134	6,055.6134

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.4 Grading - 2021

Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610	227.7540	227.7540	227.7540	6.7100e-003			227.9217
Total	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610	227.7540	227.7540	227.7540	6.7100e-003			227.9217

Mitigated Construction On-Site

Category	lb/day																
	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	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000	
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265	0.0000	6,007.043 ⁴	6,007.043 ⁴	1.9428			6,055.613 ⁴
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	0.0000	6,007.043⁴	6,007.043⁴	1.9428			6,055.613⁴

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.4 Grading - 2021

Mitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610	227.7540	227.7540	227.7540	6.7100e-003	227.9217	227.9217	227.9217
Total	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610	227.7540	227.7540	227.7540	6.7100e-003	227.9217	227.9217	227.9217

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	lb/day															
	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
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621	1.6349	1.6349	1.6349	1.5041	1.5041	1.5041	6,011.4105	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006	6,011.4105	6,011.4105	6,011.4105	1.9442		6,060.0158

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.4 Grading - 2022

Unmitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003			219.8941
Total	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003			219.8941

Mitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349	1.5041		1.5041	0.0000	6,011.4105	6,011.4105	1.9442			6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006	0.0000	6,011.4105	6,011.4105	1.9442			6,060.0158

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.4 Grading - 2022

Mitigated Construction Off-Site

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																
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	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609	219.7425	219.7425	219.7425	6.0600e-003	219.8941	219.8941
Total	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609	219.7425	219.7425	219.7425	6.0600e-003	219.8941	219.8941

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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																
Off-Road	1.7062	15.6156	16.3634	0.0269	0.8090	0.8090	0.8090	0.7612	0.7612	0.7612	2,554.3336	2,554.3336	2,554.3336	0.6120	2,569.6322	2,569.6322
Total	1.7062	15.6156	16.3634	0.0269	0.8090	0.8090	0.8090	0.7612	0.7612	0.7612	2,554.3336	2,554.3336	2,554.3336	0.6120	2,569.6322	2,569.6322

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2022
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873	3,896.548 2	3,896.548 2	3,896.548 2	0.2236			3,902.138 4
Worker	3.2162	2.1318	29.7654	0.0883	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390	8,800.685 7	8,800.685 7	8,800.685 7	0.2429			8,806.758 2
Total	3.6242	15.3350	33.1995	0.1247	9.8688	0.0949	9.9637	2.6381	0.0883	2.7263	12,697.23 39	12,697.23 39	12,697.23 39	0.4665			12,708.89 66

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120			2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120			2,569.632 2

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2022

Mitigated Construction Off-Site

Category	lb/day																
	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	
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	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873	3,896.548 2	3,896.548 2	3,896.548 2	0.2236			3,902.138 4
Worker	3.2162	2.1318	29.7654	0.0883	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390	8,800.685 7	8,800.685 7	8,800.685 7	0.2429			8,806.758 2
Total	3.6242	15.3350	33.1995	0.1247	9.8688	0.0949	9.9637	2.6381	0.0883	2.7263	12,697.23 39	12,697.23 39	12,697.23 39	0.4665			12,708.89 66

3.5 Building Construction - 2023

Unmitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	2,555.209 9	2,555.209 9	2,555.209 9	0.6079			2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	2,555.209 9	2,555.209 9	2,555.209 9	0.6079			2,570.406 1

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747	3,773.876 2	3,773.876 2	3,773.876 2	0.1982			3,778.830 0
Worker	3.0203	1.9287	27.4113	0.0851	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372	8,478.440 8	8,478.440 8	8,478.440 8	0.2190			8,483.916 0
Total	3.3229	11.9468	30.5127	0.1203	9.8688	0.0797	9.9485	2.6381	0.0738	2.7118	12,252.31 70	12,252.31 70	12,252.31 70	0.4172			12,262.74 60

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079			2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079			2,570.406 1

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023

Mitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747	3,773.876 2	3,773.876 2	3,773.876 2	0.1982			3,778.830 0
Worker	3.0203	1.9287	27.4113	0.0851	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372	8,478.440 8	8,478.440 8	8,478.440 8	0.2190			8,483.916 0
Total	3.3229	11.9468	30.5127	0.1203	9.8688	0.0797	9.9485	2.6381	0.0738	2.7118	12,252.31 70	12,252.31 70	12,252.31 70	0.4172			12,262.74 60

3.6 Paving - 2023

Unmitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140			2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140			2,225.433 6

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456	158.7723	158.7723	4.1000e-003	4.1000e-003	158.8748	158.8748	158.8748
Total	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456	158.7723	158.7723	4.1000e-003	4.1000e-003	158.8748	158.8748	158.8748

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.0327	10.1917	14.5842	0.0228	0.5102	0.5102	0.5102	0.4694	0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140	0.7140	2,225.4336	2,225.4336
Paving	0.0000				0.0000	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	1.0327	10.1917	14.5842	0.0228	0.5102	0.5102	0.5102	0.4694	0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140	0.7140	2,225.4336	2,225.4336

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

Mitigated Construction Off-Site

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																	
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	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456	158.7723	158.7723	4.1000e-003	4.1000e-003			158.8748
Total	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456	158.7723	158.7723	4.1000e-003	4.1000e-003			158.8748

3.6 Paving - 2024

Unmitigated Construction On-Site

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																	
Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	2,207.547 ²	2,207.547 ²	2,207.547 ²	0.7140			2,225.396 ³
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Total	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	2,207.547²	2,207.547²	2,207.547²	0.7140			2,225.396³

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.6 Paving - 2024

Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456	153.8517	153.8517	3.7600e-003	3.7600e-003	153.9458	153.9458	153.9458
Total	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456	153.8517	153.8517	3.7600e-003	3.7600e-003	153.9458	153.9458	153.9458

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	0.0000	2,207.547 ²	2,207.547 ²	0.7140	0.7140	2,225.396 ³	2,225.396 ³
Paving	0.0000				0.0000	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	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	0.0000	2,207.547²	2,207.547²	0.7140	0.7140	2,225.396³	2,225.396³

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.6 Paving - 2024

Mitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456	153.8517	153.8517	3.7600e-003	3.7600e-003	153.9458	153.9458	153.9458
Total	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456	153.8517	153.8517	3.7600e-003	3.7600e-003	153.9458	153.9458	153.9458

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

Category	lb/day																
	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	
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609			281.4481	0.0159		281.8443	281.8443
Total	236.5923	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609			281.4481	0.0159		281.8443	281.8443

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

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																
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	0.5707	0.3513	5.1044	0.0165	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866	1,641.085 ₂	1,641.085 ₂	1,641.085 ₂	0.0401		1,642.088 ₆
Total	0.5707	0.3513	5.1044	0.0165	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866	1,641.085₂	1,641.085₂	1,641.085₂	0.0401		1,642.088₆

Mitigated Construction On-Site

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																
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	236.5923	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

Category	lb/day										lb/day						
	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	
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	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	0.0000
Worker	0.5707	0.3513	5.1044	0.0165	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866	1,641.085 ₂	1,641.085 ₂	1,641.085 ₂	0.0401		1,642.088 ₆	
Total	0.5707	0.3513	5.1044	0.0165	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866	1,641.085₂	1,641.085₂	1,641.085₂	0.0401		1,642.088₆	

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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															
Mitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070	50,306.60	34	50,306.60	2.1807		50,361.12
Unmitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070	50,306.60	34	50,306.60	2.1807		50,361.12

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT		
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227		
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065		
General Office Building	288.45	62.55	31.05	706,812	706,812		
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937		
Hotel	192.00	187.50	160.00	445,703	445,703		
Quality Restaurant	501.12	511.92	461.20	707,488	707,488		
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221		
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452		

4.3 Trip Type Information

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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	H-O or C-NW	Primary	Diverted	Pass-by		
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	19.00	77	19	4		
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	19.00	37	20	43		
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	19.00	58	38	4		
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	19.00	38	18	44		
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	19.00	54	35	11		

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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															
Natural Gas Mitigated	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Natural Gas Unmitigated	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBtu/yr	lb/day										lb/day					
		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
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	131.6662	131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211	0.2666	0.2666	0.2666	0.2666	0.2666	0.2666	4.2099164	4.2099164	4.2099164	0.0807	0.0772	4.234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	150.9911	150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134	0.1696	0.1696	0.1696	0.1696	0.1696	0.1696	2.677.6342	2.677.6342	2.677.6342	0.0513	0.0491	2.693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	561.1436	561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	595.0298	595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.6019	29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		0.7660	6.7463	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292	8,355.9832	8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day					
		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
Apartments Low Rise	1,11916	0.0121	0.1031	0.0439	6.6000e-004	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	131.6662	131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35,7843	0.3859	3.2978	1.4033	0.0211	0.2666	0.2666	0.2666	0.2666	0.2666	0.2666	4,209.9164	4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1,28342	0.0138	0.1258	0.1057	7.5000e-004	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	150.9911	150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22,7599	0.2455	2.2314	1.8743	0.0134	0.1696	0.1696	0.1696	0.1696	0.1696	0.1696	2,677.6342	2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4,76972	0.0514	0.4676	0.3928	2.8100e-003	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	561.1436	561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5,05775	0.0545	0.4959	0.4165	2.9800e-003	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	595.0298	595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0,251616	2.7100e-003	0.0247	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.6019	29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		0.7660	6.7463	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292	8,355.9832	8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

6.0 Area Detail

6.1 Mitigation Measures Area

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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																
Mitigated	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Unmitigated	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92

6.2 Area by SubCategory

Unmitigated

SubCategory	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																
Architectural Coating	2.2670				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900	1.1400	1.1400	1.1400	1.1400	1.1400	1.1400	0.0000	18,000.00 00	18,000.00 00	0.3450	0.3300	18,106.96 50
Landscaping	2.4766	0.9496	82.4430	4.3600e-003	0.4574	0.4574	0.4574	0.4574	0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Mitigated

SubCategory	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																
Architectural Coating	2.2670				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900	1.1400	1.1400	1.1400	1.1400	1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003	0.4574	0.4574	0.4574	0.4574	0.4574	0.4574	148.5950	148.5950	148.5950	0.1424		152.1542
Total	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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



Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Village South Specific Plan (Proposed)
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day										lb/day					
	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
2021	4.2865	46.4651	31.6150	0.0642	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,221.4937	6,221.4937	1.9491	0.0000	6,270.2214
2022	5.7218	38.9024	47.3319	0.1455	9.8688	1.6366	10.7736	3.6558	1.5057	5.1615	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663
2023	5.2705	26.4914	44.5936	0.1413	9.8688	0.7800	10.6488	2.6381	0.7328	3.3708	0.0000	14,210.3424	14,210.3424	1.0230	0.0000	14,235.9160
2024	237.2328	9.5610	15.0611	0.0243	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,352.4178	2,352.4178	0.7175	0.0000	2,370.3550
Maximum	237.2328	46.4651	47.3319	0.1455	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**2.2 Overall Operational
Unmitigated Operational**

Category	lb/day															
	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
Area	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.80 05	47,917.80 05	2.1953		47,972.68 39
Total	40.7912	67.7872	202.7424	0.6043	45.9592	2.4640	48.4231	12.2950	2.4399	14.7349	0.0000	74,422.37 87	74,422.37 87	2.8429	0.4832	74,637.44 17

Mitigated Operational

Category	lb/day															
	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
Area	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.80 05	47,917.80 05	2.1953		47,972.68 39
Total	40.7912	67.7872	202.7424	0.6043	45.9592	2.4640	48.4231	12.2950	2.4399	14.7349	0.0000	74,422.37 87	74,422.37 87	2.8429	0.4832	74,637.44 17

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

	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	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388	1.5513	1.5513	1.5513	1.4411	1.4411	1.4411	3,747.944 ₉	3,747.944 ₉	3,747.944 ₉	1.0549		3,774.317 ₄
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419	3,747.944₉	3,747.944₉	3,747.944₉	1.0549		3,774.317₄

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021

Unmitigated Construction Off-Site

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																
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.855 5	1,269.855 5	0.0908		1,272.125 2
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
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9960
Total	0.2019	4.1943	1.5706	0.0133	0.4346	0.0141	0.4487	0.1176	0.0135	0.1311		1,430.693 2	1,430.693 2	0.0955		1,433.081 2

Mitigated Construction On-Site

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																
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021

Mitigated Construction Off-Site

Category	lb/day											CO2e				
	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
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.855 5	1,269.855 5	0.0908		1,272.125 2
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
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9960
Total	0.2019	4.1943	1.5706	0.0133	0.4346	0.0141	0.4487	0.1176	0.0135	0.1311		1,430.693 2	1,430.693 2	0.0955		1,433.081 2

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

Category	lb/day											CO2e				
	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
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445	1.8809	1.8809	1.8809		3,685.656 9	3,685.656 9	1.1920		3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 9	3,685.656 9	1.1920		3,715.457 3

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549	193.0052	193.0052	5.6800e-003	5.6800e-003	193.1472	193.1472	193.1472
Total	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549	193.0052	193.0052	5.6800e-003	5.6800e-003	193.1472	193.1472	193.1472

Mitigated Construction On-Site

Category	lb/day																
	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	
Fugitive Dust	3.8882	40.4971	21.1543	0.0380	18.0663	0.0000	18.0663	9.9307	0.0000	9.9307	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	2.0445	2.0445	2.0445	1.8809	1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920	1.1920	3,715.4573	3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920	1.1920	3,715.4573	3,715.4573

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2021
Mitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549	193.0052	193.0052	5.6800e-003	193.1472			193.1472
Total	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549	193.0052	193.0052	5.6800e-003	193.1472			193.1472

3.4 Grading - 2021
Unmitigated Construction On-Site

Category	lb/day															
	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
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265	6,007.0434	6,007.0434	1.9428	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	6,007.0434	6,007.0434	1.9428	1.9428		6,055.6134

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.4 Grading - 2021

Unmitigated Construction Off-Site

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																	
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610	214.4502	214.4502	214.4502	6.3100e-003			214.6080
Total	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610	214.4502	214.4502	214.4502	6.3100e-003			214.6080

Mitigated Construction On-Site

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																	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000	
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428			6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	0.0000	6,007.0434	6,007.0434	1.9428			6,055.6134

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.4 Grading - 2021

Mitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610	214.4502	214.4502	214.4502	6.3100e-003			214.6080
Total	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610	214.4502	214.4502	214.4502	6.3100e-003			214.6080

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621	1.6349	1.6349	1.6349	1.5041	1.5041	1.5041	6,011.4105	6,011.4105	6,011.4105	1.9442			6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006	6,011.4105	6,011.4105	6,011.4105	1.9442			6,060.0158

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.4 Grading - 2022

Unmitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003			207.0563
Total	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003			207.0563

Mitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349	1.5041		1.5041	0.0000	6,011.4105	6,011.4105	1.9442			6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006	0.0000	6,011.4105	6,011.4105	1.9442			6,060.0158

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.4 Grading - 2022

Mitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	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	0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609	206.9139	206.9139	5.7000e-003	5.7000e-003	207.0563	207.0563	207.0563
Total	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609	206.9139	206.9139	5.7000e-003	5.7000e-003	207.0563	207.0563	207.0563

3.5 Building Construction - 2022

Unmitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Off-Road	1.7062	15.6156	16.3634	0.0269	0.8090	0.8090	0.8090	0.7612	0.7612	0.7612	2,554.3336	2,554.3336	0.6120	0.6120	2,569.6322	2,569.6322	2,569.6322
Total	1.7062	15.6156	16.3634	0.0269	0.8090	0.8090	0.8090	0.7612	0.7612	0.7612	2,554.3336	2,554.3336	0.6120	0.6120	2,569.6322	2,569.6322	2,569.6322

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2022
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881	3,789.075 0	0.2381	3,789.075 0	0.2381			3,795.028 3
Worker	3.5872	2.3593	27.1680	0.0832	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390	8,286.901 3	0.2282	8,286.901 3	0.2282			8,292.605 8
Total	4.0156	15.5266	30.9685	0.1186	9.8688	0.0957	9.9645	2.6381	0.0891	2.7271	12,075.97 63	0.4663	12,075.97 63	0.4663			12,087.63 41

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120			2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120			2,569.632 2

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2022

Mitigated Construction Off-Site

Category	lb/day											lb/day				CO2e
	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	
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	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881	3,789.075 0	0.2381	3,795.028 3	0.2381		3,795.028 3
Worker	3.5872	2.3593	27.1680	0.0832	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390	8,286.901 3	0.2282	8,292.605 8	0.2282		8,292.605 8
Total	4.0156	15.5266	30.9685	0.1186	9.8688	0.0957	9.9645	2.6381	0.0891	2.7271	12,075.97 63	0.4663	12,087.63 41	0.4663		12,087.63 41

3.5 Building Construction - 2023

Unmitigated Construction On-Site

Category	lb/day											lb/day				CO2e
	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	
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	2,555.209 9	0.6079	2,570.406 1	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	2,555.209 9	0.6079	2,570.406 1	0.6079		2,570.406 1

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752	3,671.400 7	3,671.400 7	3,671.400 7	0.2096			3,676.641 7
Worker	3.3795	2.1338	24.9725	0.0801	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372	7,983.731 8	7,983.731 8	7,983.731 8	0.2055			7,988.868 3
Total	3.6978	12.1065	28.3496	0.1144	9.8688	0.0803	9.9491	2.6381	0.0743	2.7124	11,655.13 25	11,655.13 25	11,655.13 25	0.4151			11,665.50 99

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079			2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079			2,570.406 1

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023
Mitigated Construction Off-Site

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																
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	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752	3,671.400 7	3,671.400 7	3,671.400 7	0.2096		3,676.641 7
Worker	3.3795	2.1338	24.9725	0.0801	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372	7,983.731 8	7,983.731 8	7,983.731 8	0.2055		7,988.868 3
Total	3.6978	12.1065	28.3496	0.1144	9.8688	0.0803	9.9491	2.6381	0.0743	2.7124	11,655.13 25	11,655.13 25	11,655.13 25	0.4151		11,665.50 99

3.6 Paving - 2023

Unmitigated Construction On-Site

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																
Off-Road	1.0327	10.1917	14.5842	0.0228	0.5102	0.5102	0.5102	0.4694	0.4694	0.4694	2,207.584 1	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228	0.5102	0.5102	0.5102	0.4694	0.4694	0.4694	2,207.584 1	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456	149.5081	149.5081	149.5081	3.8500e-003		149.6043	149.6043
Total	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456	149.5081	149.5081	149.5081	3.8500e-003		149.6043	149.6043

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336	2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336	2,225.4336

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

Mitigated Construction Off-Site

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																
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	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456	149.5081	149.5081	149.5081	3.8500e-003	149.6043	149.6043
Total	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456	149.5081	149.5081	149.5081	3.8500e-003	149.6043	149.6043

3.6 Paving - 2024

Unmitigated Construction On-Site

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																
Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	2,207.547 ²	2,207.547 ²	2,207.547 ²	0.7140	0.7140	2,225.396 ³
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	2,207.547²	2,207.547²	2,207.547²	0.7140	0.7140	2,225.396³

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.6 Paving - 2024

Unmitigated Construction Off-Site

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																	
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	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	0.0000
Worker	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456	144.8706	144.8706	144.8706	3.5300e-003		144.9887	
Total	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456	144.8706	144.8706	144.8706	3.5300e-003		144.9887	

Mitigated Construction On-Site

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																
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685	0.4310	0.4310	0.4310	0.0000	2,207.547 ²	2,207.547 ²	0.7140		2,225.396 ³
Paving	0.0000					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685	0.4310	0.4310	0.4310	0.0000	2,207.547²	2,207.547²	0.7140		2,225.396³

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.6 Paving - 2024

Mitigated Construction Off-Site

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																
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	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456	144.8706	144.8706	144.8706	3.5300e-003	144.9887	144.9887
Total	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456	144.8706	144.8706	144.8706	3.5300e-003	144.9887	144.9887

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

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																
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003	0.0609	0.0609	0.0609	0.0609	0.0609	0.0609	281.4481	281.4481	281.4481	0.0159		281.8443
Total	236.5923	1.2188	1.8101	2.9700e-003	0.0609	0.0609	0.0609	0.0609	0.0609	0.0609	281.4481	281.4481	281.4481	0.0159		281.8443

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

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																	
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	0.6406	0.3886	4.6439	0.0155	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866	1,545.2860	1,545.2860	1,545.2860	0.0376			1,546.2262
Total	0.6406	0.3886	4.6439	0.0155	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866	1,545.2860	1,545.2860	1,545.2860	0.0376			1,546.2262

Mitigated Construction On-Site

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																	
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159			281.8443
Total	236.5923	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159			281.8443

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

Category	lb/day										lb/day						
	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	
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	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	0.0000
Worker	0.6406	0.3886	4.6439	0.0155	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866	1,545.286 0	1,545.286 0	1,545.286 0	0.0376	0.0376	1,546.226 2	1,546.226 2
Total	0.6406	0.3886	4.6439	0.0155	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866	1,545.286 0	1,545.286 0	1,545.286 0	0.0376	0.0376	1,546.226 2	1,546.226 2

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Category	lb/day															
	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
Mitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083	47,917.8005	47,917.8005	2.1953			47,972.6839
Unmitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083	47,917.8005	47,917.8005	2.1953			47,972.6839

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452	20,552,452	20,552,452

4.3 Trip Type Information

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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	H-O or C-NW	Primary	Diverted	Pass-by		
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	19.00	77	19	4		
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	19.00	37	20	43		
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	19.00	58	38	4		
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	19.00	38	18	44		
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	19.00	54	35	11		

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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															
Natural Gas Mitigated	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Natural Gas Unmitigated	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBtu/yr	lb/day										lb/day					
		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
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	131.6662	131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211	0.2666	0.2666	0.2666	0.2666	0.2666	0.2666	4.209.9164	4.209.9164	4.209.9164	0.0807	0.0772	4.234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	150.9911	150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134	0.1696	0.1696	0.1696	0.1696	0.1696	0.1696	2.677.6342	2.677.6342	2.677.6342	0.0513	0.0491	2.693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	561.1436	561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	595.0298	595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.6019	29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		0.7660	6.7463	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292	8,355.9832	8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day					
		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
Apartments Low Rise	1,11916	0.0121	0.1031	0.0439	6.6000e-004	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	131.6662	131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35,7843	0.3859	3.2978	1.4033	0.0211	0.2666	0.2666	0.2666	0.2666	0.2666	0.2666	4,209.9164	4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1,28342	0.0138	0.1258	0.1057	7.5000e-004	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	150.9911	150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22,7599	0.2455	2.2314	1.8743	0.0134	0.1696	0.1696	0.1696	0.1696	0.1696	0.1696	2,677.6342	2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4,76972	0.0514	0.4676	0.3928	2.8100e-003	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	561.1436	561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5,05775	0.0545	0.4959	0.4165	2.9800e-003	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	595.0298	595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0,251616	2.7100e-003	0.0247	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.6019	29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		0.7660	6.7463	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292	8,355.9832	8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

6.0 Area Detail

6.1 Mitigation Measures Area

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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																
Mitigated	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Unmitigated	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92

6.2 Area by SubCategory

Unmitigated

SubCategory	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																
Architectural Coating	2.2670				0.0000	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085				0.0000	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900	1.1400	1.1400	1.1400	1.1400	1.1400	1.1400	0.0000	18,000.00 00	18,000.00 00	0.3450	0.3300	18,106.96 50
Landscaping	2.4766	0.9496	82.4430	4.3600e-003	0.4574	0.4574	0.4574	0.4574	0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Mitigated

SubCategory	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																
Architectural Coating	2.2670				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900	1.1400	1.1400	1.1400	1.1400	1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003	0.4574	0.4574	0.4574	0.4574	0.4574	0.4574	148.5950	148.5950	148.5950	0.1424		152.1542
Total	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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



Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Village South Specific Plan (Proposed)
 Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

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tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27
tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

2.1 Overall Construction
Unmitigated Construction

Year	tons/yr										MT/yr					
	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
2021	0.1704	1.8234	1.1577	2.3800e-003	0.4141	0.0817	0.4958	0.1788	0.0754	0.2542	0.0000	210.7654	210.7654	0.0600	0.0000	212.2861
2022	0.5865	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6554	1,418.6554	0.1215	0.0000	1,421.6925
2023	0.5190	3.2850	4.7678	0.0147	0.8497	0.0971	0.9468	0.2283	0.0912	0.3195	0.0000	1,342.4412	1,342.4412	0.1115	0.0000	1,345.2291
2024	4.1592	0.1313	0.2557	5.0000e-004	0.0221	6.3900e-003	0.0285	5.8700e-003	5.9700e-003	0.0118	0.0000	44.6355	44.6355	7.8300e-003	0.0000	44.8311
Maximum	4.1592	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6554	1,418.6554	0.1215	0.0000	1,421.6925

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**2.1 Overall Construction
Mitigated Construction**

Year	tons/yr										MT/yr					
	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
2021	0.1704	1.8234	1.1577	2.3800e-003	0.4141	0.0817	0.4958	0.1788	0.0754	0.2542	0.0000	210.7651	210.7651	0.0600	0.0000	212.2658
2022	0.5865	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6550	1,418.6550	0.1215	0.0000	1,421.6921
2023	0.5190	3.2850	4.7678	0.0147	0.8497	0.0971	0.9468	0.2283	0.0912	0.3195	0.0000	1,342.4409	1,342.4409	0.1115	0.0000	1,345.2287
2024	4.1592	0.1313	0.2557	5.0000e-004	0.0221	6.3900e-003	0.0285	5.8700e-003	5.9700e-003	0.0118	0.0000	44.6354	44.6354	7.8300e-003	0.0000	44.8311
Maximum	4.1592	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6550	1,418.6550	0.1215	0.0000	1,421.6921

Percent Reduction	tons/quarter										tons/quarter					
	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
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	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOx (tons/quarter)	Maximum Mitigated ROG + NOx (tons/quarter)
1	9-1-2021	11-30-2021	1.4091	1.4091
2	12-1-2021	2-28-2022	1.3329	1.3329
3	3-1-2022	5-31-2022	1.1499	1.1499
4	6-1-2022	8-31-2022	1.1457	1.1457
5	9-1-2022	11-30-2022	1.1415	1.1415
6	12-1-2022	2-28-2023	1.0278	1.0278
7	3-1-2023	5-31-2023	0.9868	0.9868
8	6-1-2023	8-31-2023	0.9831	0.9831

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9	9-1-2023	11-30-2023	0.9798	0.9798
10	12-1-2023	2-29-2024	2.8757	2.8757
11	3-1-2024	5-31-2024	1.6188	1.6188
		Highest	2.8757	2.8757

**2.2 Overall Operational
Unmitigated Operational**

Category	tons/yr										MT/yr					
	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
Area	5.1437	0.2950	10.3804	1.6700e-003	0.0714	0.0714	0.0714	0.0714	0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	3.896.0732	3.896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7.620.4986	7.620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	6.8692	9.5223	30.3407	0.0914	7.7979	0.2260	8.0240	2.0895	0.2219	2.3114	236.9712	12,294.1807	12,531.1519	15.7904	0.1260	12,963.4751

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2.2 Overall Operational Mitigated Operational

Category	tons/yr										MT/yr					
	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
Area	5.1437	0.2950	10.3804	1.6700e-003	0.0714	0.0714	0.0714	0.0714	0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	3.896.073 ₂	3.896.073 ₂	0.1303	0.0468	3.913.283 ₃
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7.620.498 ₆	7.620.498 ₆	0.3407	0.0000	7.629.016 ₂
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	586.6420	585.8052	3.0183	0.0755	683.7567
Total	6.8692	9.5223	30.3407	0.0914	7.7979	0.2260	8.0240	2.0895	0.2219	2.3114	236.9712	12,294.1807	12,531.1519	15.7904	0.1260	12,963.4751

Percent Reduction	tons/yr										MT/yr					
	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
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	0.00

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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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	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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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	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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
tons/yr																
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004	0.0233	0.0233	0.0233	0.0216	0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	0.0475	0.4716	0.3235	5.8000e-004	0.0496	0.0233	0.0729	0.0216	0.0216	0.0291	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
MT/yr																

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3.2 Demolition - 2021

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
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	7.2000e-004	5.3000e-004	6.0900e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5281	1.5281	5.0000e-005	0.0000	1.5293
Total	2.6500e-003	0.0639	0.0209	2.0000e-004	5.6200e-003	2.0000e-004	5.8200e-003	1.5300e-003	1.9000e-004	1.7200e-003	0.0000	18.9847	18.9847	1.2600e-003	0.0000	19.0161

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	0.0475	0.4716	0.3235	5.8000e-004	0.0496	0.0233	0.0729	7.5100e-003	0.0216	0.0291	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600

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3.2 Demolition - 2021

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
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	7.2000e-004	5.3000e-004	6.0900e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5281	1.5281	5.0000e-005	0.0000	1.5293
Total	2.6500e-003	0.0639	0.0209	2.0000e-004	5.6200e-003	2.0000e-004	5.8200e-003	1.5300e-003	1.9000e-004	1.7200e-003	0.0000	18.9847	18.9847	1.2600e-003	0.0000	19.0161

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061

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3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234
Total	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204	0.0188	0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060

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3.3 Site Preparation - 2021
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234
Total	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234

3.4 Grading - 2021
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003	0.0377	0.0377	0.0377	0.0347	0.0347	0.0347	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776
Total	0.0796	0.8816	0.5867	1.1800e-003	0.1741	0.0377	0.2118	0.0693	0.0347	0.1040	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776

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3.4 Grading - 2021

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr						
	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	
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	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	0.0000
Worker	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	0.0000	2.5828
Total	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	0.0000	2.5828

Mitigated Construction On-Site

Category	tons/yr										MT/yr						
	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	
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003	0.0377	0.0377	0.0377	0.0347	0.0347	0.0347	0.0000	103.5403	103.5403	0.0335	0.0000	0.0000	104.3775
Total	0.0796	0.8816	0.5867	1.1800e-003	0.1741	0.0377	0.2118	0.0693	0.0347	0.1040	0.0000	103.5403	103.5403	0.0335	0.0000	0.0000	104.3775

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3.4 Grading - 2021

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	2.5828
Total	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	2.5828

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004	5.7200e-003	5.7200e-003	5.7200e-003	5.2600e-003	5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	0.0127	0.1360	0.1017	2.2000e-004	0.0807	5.7200e-003	0.0865	0.0180	5.2600e-003	0.0233	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414

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3.4 Grading - 2022

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590
Total	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004	5.7200e-003	5.7200e-003	5.7200e-003	5.2600e-003	0.0000	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	0.0127	0.1360	0.1017	2.2000e-004	0.0807	5.7200e-003	0.0865	0.0180	5.2600e-003	0.0233	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414

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3.4 Grading - 2022

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590
Total	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590

3.5 Building Construction - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.2158	1.9754	2.0700	3.4100e-003	0.1023	0.1023	0.1023	0.0963	0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881
Total	0.2158	1.9754	2.0700	3.4100e-003	0.1023	0.1023	0.1023	0.0963	0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881

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3.5 Building Construction - 2022
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.3051	0.2164	2.5233	7.3500e-003	0.7557	6.2300e-003	0.7619	0.2007	5.7400e-003	0.2065	0.0000	663.9936	663.9936	0.0187	0.0000	664.4604
Total	0.3578	1.9125	2.9812	0.0119	0.8696	9.4100e-003	0.8790	0.2336	8.7800e-003	0.2424	0.0000	1,105.9771	1,105.9771	0.0451	0.0000	1,107.1039

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877
Total	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877

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3.5 Building Construction - 2022
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.3051	0.2164	2.5233	7.3500e-003	0.7557	6.2300e-003	0.7619	0.2007	5.7400e-003	0.2065	0.0000	663.9936	663.9936	0.0187	0.0000	664.4604
Total	0.3578	1.9125	2.9812	0.0119	0.8696	9.4100e-003	0.8790	0.2336	8.7800e-003	0.2424	0.0000	1,105.9771	1,105.9771	0.0451	0.0000	1,107.1039

3.5 Building Construction - 2023
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2789	286.2789	0.0681	0.0000	287.9814
Total	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2789	286.2789	0.0681	0.0000	287.9814

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3.5 Building Construction - 2023
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.2795	0.1910	2.2635	6.9100e-003	0.7377	5.9100e-003	0.7436	0.1960	5.4500e-003	0.2014	0.0000	624.5363	624.5363	0.0164	0.0000	624.9466
Total	0.3177	1.4420	2.6646	0.0112	0.8490	7.3700e-003	0.8564	0.2281	6.8500e-003	0.2349	0.0000	1,042.5294	1,042.5294	0.0392	0.0000	1,043.5090

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811
Total	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811

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3.5 Building Construction - 2023
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.2795	0.1910	2.2635	6.9100e-003	0.7377	5.9100e-003	0.7436	0.1960	5.4500e-003	0.2014	0.0000	624.5363	624.5363	0.0164	0.0000	624.9466
Total	0.3177	1.4420	2.6646	0.0112	0.8490	7.3700e-003	0.8564	0.2281	6.8500e-003	0.2349	0.0000	1,042.5294	1,042.5294	0.0392	0.0000	1,043.5090

3.6 Paving - 2023
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227

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3.6 Paving - 2023

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	2.8000e-004	1.9000e-004	2.2300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6156	0.6156	2.0000e-005	0.0000	0.6160
Total	2.8000e-004	1.9000e-004	2.2300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6156	0.6156	2.0000e-005	0.0000	0.6160

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	6.7100e-003	0.0663	0.0948	1.5000e-004	3.3200e-003	3.3200e-003	3.3200e-003	3.0500e-003	3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000				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	6.7100e-003	0.0663	0.0948	1.5000e-004	3.3200e-003	3.3200e-003	3.3200e-003	3.0500e-003	3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227

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Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	2.8000e-004	1.9000e-004	2.2300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6156	0.6156	2.0000e-005	0.0000	0.6160
Total	2.8000e-004	1.9000e-004	2.2300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6156	0.6156	2.0000e-005	0.0000	0.6160

3.6 Paving - 2024

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.0109	0.1048	0.1609	2.5000e-004	5.1500e-003	5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000				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	0.0109	0.1048	0.1609	2.5000e-004	5.1500e-003	5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073

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3.6 Paving - 2024

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	4.4000e-004	2.9000e-004	3.5100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0094	1.0094	3.0000e-005	0.0000	1.0100
Total	4.4000e-004	2.9000e-004	3.5100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0094	1.0094	3.0000e-005	0.0000	1.0100

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	0.0109	0.1048	0.1609	2.5000e-004	5.1500e-003	5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000				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	0.0109	0.1048	0.1609	2.5000e-004	5.1500e-003	5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073

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3.6 Paving - 2024

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	4.4000e-004	2.9000e-004	3.5100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0094	1.0094	3.0000e-005	0.0000	1.0100
Total	4.4000e-004	2.9000e-004	3.5100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0094	1.0094	3.0000e-005	0.0000	1.0100

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Archit. Coating	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	4.1404	0.0213	0.0317	5.0000e-005	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745

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3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	7.4800e-003	4.9300e-003	0.0596	1.9000e-004	0.0209	1.6000e-004	0.0211	5.5500e-003	1.5000e-004	5.7000e-003	0.0000	17.1287	17.1287	4.3000e-004	0.0000	17.1394
Total	7.4800e-003	4.9300e-003	0.0596	1.9000e-004	0.0209	1.6000e-004	0.0211	5.5500e-003	1.5000e-004	5.7000e-003	0.0000	17.1287	17.1287	4.3000e-004	0.0000	17.1394

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Archit. Coating	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	4.1404	0.0213	0.0317	5.0000e-005	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745

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3.7 Architectural Coating - 2024
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	7.4800e-003	4.9300e-003	0.0596	1.9000e-004	0.0209	1.6000e-004	0.0211	5.5500e-003	1.5000e-004	5.7000e-003	0.0000	17.1287	17.1287	4.3000e-004	0.0000	17.1394
Total	7.4800e-003	4.9300e-003	0.0596	1.9000e-004	0.0209	1.6000e-004	0.0211	5.5500e-003	1.5000e-004	5.7000e-003	0.0000	17.1287	17.1287	4.3000e-004	0.0000	17.1394

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Category	tons/yr											MT/yr				
	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
Mitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620,498 6	7,620,498 6	0.3407	0.0000	7,629,016 2
Unmitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620,498 6	7,620,498 6	0.3407	0.0000	7,629,016 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartment Low Rise	145.75	154.25	154.00	506,227	506,227	506,227	506,227
Apartment Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452	20,552,452	20,552,452

4.3 Trip Type Information

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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	H-O or C-NW	Primary	Diverted	Pass-by		
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	19.00	77	19	4		
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	19.00	37	20	43		
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	19.00	58	38	4		
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	19.00	38	18	44		
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	19.00	54	35	11		

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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
MT/yr																
Electricity Mitigated						0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Electricity Unmitigated						0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
NaturalGas Mitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478
NaturalGas Unmitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					
		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
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003	0.0487	0.0487	0.0487	0.0487	0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	97840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4268	1,383.4268	0.0265	0.0254	1,391.6478

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					
		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
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003	0.0487	0.0487	0.0487	0.0487	0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	97840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4268	1,383.4268	0.0265	0.0254	1,391.6478

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		2,512.6465	0.1037	0.0215	2,521.6356

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
Apartment Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartment Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		2,512.6465	0.1037	0.0215	2,521.6356

6.0 Area Detail

6.1 Mitigation Measures Area

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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
tons/yr																
MT/yr																
Mitigated	5.1437	0.2950	10.3804	1.6700e-003	0.0714	0.0714	0.0714	0.0714	0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Unmitigated	5.1437	0.2950	10.3804	1.6700e-003	0.0714	0.0714	0.0714	0.0714	0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

6.2 Area by SubCategory

Unmitigated

SubCategory	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
tons/yr																
MT/yr																
Architectural Coating	0.4137				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003	0.0143	0.0143	0.0143	0.0143	0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004	0.0572	0.0572	0.0572	0.0572	0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	5.1437	0.2950	10.3804	1.6600e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

SubCategory	tons/yr										MT/yr					
	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
Architectural Coating	0.4137					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003	0.0143	0.0143	0.0143	0.0143	0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004	0.0572	0.0572	0.0572	0.0572	0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	5.1437	0.2950	10.3804	1.6600e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

7.0 Water Detail

7.1 Mitigation Measures Water

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	585.8052	3.0183	0.0755	683.7567
Unmitigated	585.8052	3.0183	0.0755	683.7567

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		585.8052	3.0183	0.0755	683.7567

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		585.8052	3.0183	0.0755	683.7567

8.0 Waste Detail

8.1 Mitigation Measures Waste

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	207.8079	12.2811	0.0000	514.8354
Unmitigated	207.8079	12.2811	0.0000	514.8354

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		207.8079	12.2811	0.0000	514.8354

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed tons	MT/yr			
		Total CO2	CH4	N2O	CO2e
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		207.8079	12.2811	0.0000	514.8354

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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Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Village South Specific Plan (Proposed)
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27
tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day															
	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
2021	4.2561	46.4415	31.4494	0.0636	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,163.4166	6,163.4166	1.9475	0.0000	6,212.1039
2022	4.5441	38.8811	40.8776	0.1240	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707
2023	4.1534	25.7658	38.7457	0.1206	7.0088	0.7592	7.7679	1.8799	0.7136	2.5935	0.0000	12,150.4890	12,150.4890	0.9589	0.0000	12,174.4615
2024	237.0219	9.5478	14.9642	0.0239	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,313.1808	2,313.1808	0.7166	0.0000	2,331.0956
Maximum	237.0219	46.4415	40.8776	0.1240	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**2.2 Overall Operational
Unmitigated Operational**

Category	lb/day															
	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
Area	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08
Total	41.1168	67.2262	207.5497	0.6278	45.9592	2.4626	48.4217	12.2950	2.4385	14.7336	0.0000	76,811.18 16	76,811.18 16	2.8282	0.4832	77,025.87 86

Mitigated Operational

Category	lb/day															
	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
Area	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08
Total	41.1168	67.2262	207.5497	0.6278	45.9592	2.4626	48.4217	12.2950	2.4385	14.7336	0.0000	76,811.18 16	76,811.18 16	2.8282	0.4832	77,025.87 86

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

	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	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388	1.5513	1.5513	1.5513	1.4411	1.4411	1.4411		3,747.944 ₉	3,747.944 ₉	1.0549		3,774.317 ₄
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419		3,747.944₉	3,747.944₉	1.0549		3,774.317₄

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.2 Demolition - 2021

Unmitigated Construction Off-Site

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																	
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.241 ₃	1,292.241 ₃	0.0877			1,294.433 ₇
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
Worker	0.0487	0.0313	0.4282	1.1800e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		117.2799	117.2799	3.5200e-003			117.3678
Total	0.1760	4.1265	1.3884	0.0131	0.3810	0.0135	0.3946	0.1034	0.0129	0.1163		1,409.521₂	1,409.521₂	0.0912			1,411.801₅

Mitigated Construction On-Site

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																	
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000	
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.944 ₉	3,747.944 ₉	1.0549			3,774.317 ₄
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419	0.0000	3,747.944₉	3,747.944₉	1.0549			3,774.317₄

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.2 Demolition - 2021

Mitigated Construction Off-Site

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																
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.241 ₃	1,292.241 ₃	0.0877		1,294.433 ₇
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
Worker	0.0487	0.0313	0.4282	1.1800e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		117.2799	117.2799	3.5200e-003		117.3678
Total	0.1760	4.1265	1.3884	0.0131	0.3810	0.0135	0.3946	0.1034	0.0129	0.1163		1,409.521₂	1,409.521₂	0.0912		1,411.801₅

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

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																
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445	1.8809	1.8809	1.8809		3,685.656 ₉	3,685.656 ₉	1.1920		3,715.457 ₃
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656₉	3,685.656₉	1.1920		3,715.457₃

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374	140.7359	140.7359	4.2200e-003	4.2200e-003	140.8414	140.8414	140.8414
Total	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374	140.7359	140.7359	4.2200e-003	4.2200e-003	140.8414	140.8414	140.8414

Mitigated Construction On-Site

Category	lb/day																
	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	
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	2.0445	2.0445	2.0445	1.8809	1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573	3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573	3,715.4573

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 2021
Mitigated Construction Off-Site

Category	lb/day															
	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
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	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374	140.7359	140.7359	4.2200e-003	140.8414		140.8414
Total	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374	140.7359	140.7359	4.2200e-003	140.8414		140.8414

3.4 Grading - 2021
Unmitigated Construction On-Site

Category	lb/day															
	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
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265	6,007.0434	6,007.0434	1.9428	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	6,007.0434	6,007.0434	1.9428	1.9428		6,055.6134

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.4 Grading - 2021

Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415	156.3732	156.3732	4.6900e-003	4.6900e-003			156.4904
Total	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415	156.3732	156.3732	4.6900e-003	4.6900e-003			156.4904

Mitigated Construction On-Site

Category	lb/day																
	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	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428			6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	0.0000	6,007.0434	6,007.0434	1.9428			6,055.6134

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.4 Grading - 2021

Mitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415	156.3732	156.3732	4.6900e-003	4.6900e-003			156.4904
Total	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415	156.3732	156.3732	4.6900e-003	4.6900e-003			156.4904

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621	1.6349	1.6349	1.6349	1.5041	1.5041	6,011.4105	6,011.4105	1.9442	1.9442				6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006	6,011.4105	6,011.4105	1.9442	1.9442			6,060.0158

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.4 Grading - 2022

Unmitigated Construction Off-Site

Category	lb/day										lb/day						
	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	
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	0.0607	0.0376	0.5263	1.5100e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415	150.8754	150.8754	4.2400e-003	150.8754			150.9813
Total	0.0607	0.0376	0.5263	1.5100e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415	150.8754	150.8754	4.2400e-003	150.8754			150.9813

Mitigated Construction On-Site

Category	lb/day										lb/day						
	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	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621	1.6349	1.6349	1.6349	1.5041	1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442			6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006	0.0000	6,011.4105	6,011.4105	1.9442			6,060.0158

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.4 Grading - 2022

Mitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0607	0.0376	0.5263	1.5100e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415	150.8754	150.8754	4.2400e-003	4.2400e-003	150.9813	150.9813	150.9813
Total	0.0607	0.0376	0.5263	1.5100e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415	150.8754	150.8754	4.2400e-003	4.2400e-003	150.9813	150.9813	150.9813

3.5 Building Construction - 2022

Unmitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.7062	15.6156	16.3634	0.0269	0.8090	0.8090	0.8090	0.7612	0.7612	0.7612	2,554.3336	2,554.3336	0.6120	0.6120	2,569.6322	2,569.6322	2,569.6322
Total	1.7062	15.6156	16.3634	0.0269	0.8090	0.8090	0.8090	0.7612	0.7612	0.7612	2,554.3336	2,554.3336	0.6120	0.6120	2,569.6322	2,569.6322	2,569.6322

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2022
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873	3.896.548 2	3.896.548 2	3.896.548 2	0.2236			3.902.138 4
Worker	2.4299	1.5074	21.0801	0.0607	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617	6,042.558 5	6,042.558 5	6,042.558 5	0.1697			6,046.800 0
Total	2.8378	14.7106	24.5142	0.0971	7.0087	0.0741	7.0828	1.8799	0.0691	1.9490	9,939.106 7	9,939.106 7	9,939.106 7	0.3933			9,948.938 4

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120			2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120			2,569.632 2

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2022

Mitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873	3,896.548 2	3,896.548 2	3,896.548 2	0.2236			3,902.138 4
Worker	2.4299	1.5074	21.0801	0.0607	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617	6,042.558 5	6,042.558 5	6,042.558 5	0.1697			6,046.800 0
Total	2.8378	14.7106	24.5142	0.0971	7.0087	0.0741	7.0828	1.8799	0.0691	1.9490	9,939.106 7	9,939.106 7	9,939.106 7	0.3933			9,948.938 4

3.5 Building Construction - 2023

Unmitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	2,555.209 9	2,555.209 9	2,555.209 9	0.6079			2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	2,555.209 9	2,555.209 9	2,555.209 9	0.6079			2,570.406 1

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747	3,773.876 2	3,773.876 2	3,773.876 2	0.1982			3,778.830 0
Worker	2.2780	1.3628	19.4002	0.0584	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604	5,821.402 8	5,821.402 8	5,821.402 8	0.1529			5,825.225 4
Total	2.5807	11.3809	22.5017	0.0936	7.0088	0.0595	7.0682	1.8799	0.0552	1.9350	9,595.279 0	9,595.279 0	9,595.279 0	0.3511			9,604.055 4

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079			2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079			2,570.406 1

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023

Mitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747	3,773.876 2	3,773.876 2	3,773.876 2	0.1982			3,778.830 0
Worker	2.2780	1.3628	19.4002	0.0584	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604	5,821.402 8	5,821.402 8	5,821.402 8	0.1529			5,825.225 4
Total	2.5807	11.3809	22.5017	0.0936	7.0088	0.0595	7.0682	1.8799	0.0552	1.9350	9,595.279 0	9,595.279 0	9,595.279 0	0.3511			9,604.055 4

3.6 Paving - 2023

Unmitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140			2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140			2,225.433 6

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

Unmitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.0427	0.0255	0.3633	1.0900e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311	109.0150	109.0150	2.8600e-003	2.8600e-003			109.0866
Total	0.0427	0.0255	0.3633	1.0900e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311	109.0150	109.0150	2.8600e-003	2.8600e-003			109.0866

Mitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102	0.4694	0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140			2,225.4336
Paving	0.0000					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102	0.4694	0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140			2,225.4336

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

Mitigated Construction Off-Site

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																
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	0.0427	0.0255	0.3633	1.0900e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311	109.0150	109.0150	2.8600e-003	2.8600e-003		109.0866
Total	0.0427	0.0255	0.3633	1.0900e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311	109.0150	109.0150	2.8600e-003	2.8600e-003		109.0866

3.6 Paving - 2024

Unmitigated Construction On-Site

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																
Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	2,207.547 ²	2,207.547 ²	2,207.547 ²	0.7140		2,225.396 ³
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	2,207.547²	2,207.547²	2,207.547²	0.7140		2,225.396³

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.6 Paving - 2024

Unmitigated Construction Off-Site

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																
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	0.0403	0.0233	0.3384	1.0600e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311	105.6336	105.6336	2.6300e-003	105.6992		105.6992
Total	0.0403	0.0233	0.3384	1.0600e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311	105.6336	105.6336	2.6300e-003	105.6992		105.6992

Mitigated Construction On-Site

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																
Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	0.0000	2,207.547 ²	2,207.547 ²	0.7140		2,225.396 ³
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	0.0000	2,207.547²	2,207.547²	0.7140		2,225.396³

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.6 Paving - 2024

Mitigated Construction Off-Site

Category	lb/day											lb/day				
	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
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	0.0403	0.0233	0.3384	1.0600e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311	105.6336	105.6336	2.6300e-003	105.6992		105.6992
Total	0.0403	0.0233	0.3384	1.0600e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311	105.6336	105.6336	2.6300e-003	105.6992		105.6992

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

Category	lb/day											lb/day				
	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
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	236.5923	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

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																	
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	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315	1,126.7583	1,126.7583	0.0280				1,127.4583
Total	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315	1,126.7583	1,126.7583	0.0280				1,127.4583

Mitigated Construction On-Site

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																	
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159			281.8443
Total	236.5923	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159			281.8443

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

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															
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	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315	1,126.7583	1,126.7583	0.0280	0.0280	0.0280	1,127.4583
Total	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315	1,126.7583	1,126.7583	0.0280	0.0280	0.0280	1,127.4583

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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																
Mitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070	50,306.60	34	50,306.60	2.1807		50,361.12
Unmitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070	50,306.60	34	50,306.60	2.1807		50,361.12

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT		
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227		
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065		
General Office Building	288.45	62.55	31.05	706,812	706,812		
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937		
Hotel	192.00	187.50	160.00	445,703	445,703		
Quality Restaurant	501.12	511.92	461.20	707,488	707,488		
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221		
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452		

4.3 Trip Type Information

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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	H-O or C-NW	Primary	Diverted	Pass-by		
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	19.00	77	19	4		
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	19.00	37	20	43		
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	19.00	58	38	4		
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	19.00	38	18	44		
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	19.00	54	35	11		

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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															
Natural Gas Mitigated	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Natural Gas Unmitigated	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBtu/yr	lb/day										lb/day					
		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
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	131.6662	131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211	0.2666	0.2666	0.2666	0.2666	0.2666	0.2666	4.2099164	4.2099164	4.2099164	0.0807	0.0772	4.234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	150.9911	150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134	0.1696	0.1696	0.1696	0.1696	0.1696	0.1696	2.677.6342	2.677.6342	2.677.6342	0.0513	0.0491	2.693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	561.1436	561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	595.0298	595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.6019	29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		0.7660	6.7463	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292	8,355.9832	8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day					
		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
Apartments Low Rise	1,11916	0.0121	0.1031	0.0439	6.6000e-004	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	131.6662	131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35,7843	0.3859	3.2978	1.4033	0.0211	0.2666	0.2666	0.2666	0.2666	0.2666	0.2666	4,209.9164	4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1,28342	0.0138	0.1258	0.1057	7.5000e-004	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	150.9911	150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22,7599	0.2455	2.2314	1.8743	0.0134	0.1696	0.1696	0.1696	0.1696	0.1696	0.1696	2,677.6342	2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4,76972	0.0514	0.4676	0.3928	2.8100e-003	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	561.1436	561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5,05775	0.0545	0.4959	0.4165	2.9800e-003	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	595.0298	595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0,251616	2.7100e-003	0.0247	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.6019	29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		0.7660	6.7463	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292	8,355.9832	8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

6.0 Area Detail

6.1 Mitigation Measures Area

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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															
Mitigated	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Unmitigated	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92

6.2 Area by SubCategory

Unmitigated

SubCategory	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															
Architectural Coating	2.2670				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900	1.1400	1.1400	1.1400	1.1400	1.1400	1.1400	0.0000	18,000.00 00	18,000.00 00	0.3450	0.3300	18,106.96 50
Landscaping	2.4766	0.9496	82.4430	4.3600e-003	0.4574	0.4574	0.4574	0.4574	0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Mitigated

SubCategory	lb/day										lb/day					
	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
Architectural Coating	2.2670					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900	1.1400	1.1400	1.1400	1.1400	1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003	0.4574	0.4574	0.4574	0.4574	0.4574	0.4574	148.5950	148.5950	0.1424			152.1542
Total	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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



Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Village South Specific Plan (Proposed)
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27
tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day											lb/day				
	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
2021	4.2621	46.4460	31.4068	0.0635	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,154.337 ₇	6,154.337 ₇	1.9472	0.0000	6,203.018 ₆
2022	4.7966	38.8851	39.6338	0.1195	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,035.34 ₄₀	12,035.34 ₄₀	1.9482	0.0000	12,060.60 ₁₃
2023	4.3939	25.8648	37.5031	0.1162	7.0088	0.7598	7.7685	1.8799	0.7142	2.5940	0.0000	11,710.40 ₈₀	11,710.40 ₈₀	0.9617	0.0000	11,734.44 ₉₇
2024	237.0656	9.5503	14.9372	0.0238	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,307.051 ₇	2,307.051 ₇	0.7164	0.0000	2,324.962 ₇
Maximum	237.0656	46.4460	39.6338	0.1195	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	12,035.34₄₀	12,035.34₄₀	1.9482	0.0000	12,060.60₁₃

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**2.2 Overall Operational
Unmitigated Operational**

Category	lb/day															
	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
Area	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.80 05	47,917.80 05	2.1953		47,972.68 39
Total	40.7912	67.7872	202.7424	0.6043	45.9592	2.4640	48.4231	12.2950	2.4399	14.7349	0.0000	74,422.37 87	74,422.37 87	2.8429	0.4832	74,637.44 17

Mitigated Operational

Category	lb/day															
	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
Area	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.80 05	47,917.80 05	2.1953		47,972.68 39
Total	40.7912	67.7872	202.7424	0.6043	45.9592	2.4640	48.4231	12.2950	2.4399	14.7349	0.0000	74,422.37 87	74,422.37 87	2.8429	0.4832	74,637.44 17

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

	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	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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																
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388	1.5513	1.5513	1.5513	1.4411	1.4411	1.4411		3,747.944 ₉	3,747.944 ₉	1.0549		3,774.317 ₄
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419		3,747.944₉	3,747.944₉	1.0549		3,774.317₄

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021

Unmitigated Construction Off-Site

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																
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.855 5	1,269.855 5	0.0908		1,272.125 2
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
Worker	0.0532	0.0346	0.3963	1.1100e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		110.4707	110.4707	3.3300e-003		110.5539
Total	0.1835	4.1800	1.4144	0.0128	0.3810	0.0137	0.3948	0.1034	0.0131	0.1165		1,380.326 2	1,380.326 2	0.0941		1,382.679 1

Mitigated Construction On-Site

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																
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021

Mitigated Construction Off-Site

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																
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.855 5	1,269.855 5	0.0908		1,272.125 2
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
Worker	0.0532	0.0346	0.3963	1.1100e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		110.4707	110.4707	3.3300e-003		110.5539
Total	0.1835	4.1800	1.4144	0.0128	0.3810	0.0137	0.3948	0.1034	0.0131	0.1165		1,380.326 2	1,380.326 2	0.0941		1,382.679 1

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

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																
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	2.11543	0.0380		2.0445	2.0445	1.8809	1.8809	1.8809		3,685.656 9	3,685.656 9	1.1920		3,715.457 3
Total	3.8882	40.4971	2.11543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 9	3,685.656 9	1.1920		3,715.457 3

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374	132.5649	132.5649	3.9900e-003	132.6646			132.6646
Total	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374	132.5649	132.5649	3.9900e-003	132.6646			132.6646

Mitigated Construction On-Site

Category	lb/day																
	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	
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307	0.0000	0.0000	0.0000			0.0000	
Off-Road	3.8882	40.4971	21.1543	0.0380	2.0445	2.0445	2.0445	1.8809	1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920			3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920			3,715.4573

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2021
Mitigated Construction Off-Site

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																
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	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374	132.5649	132.5649	3.9900e-003	132.6646		132.6646
Total	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374	132.5649	132.5649	3.9900e-003	132.6646		132.6646

3.4 Grading - 2021
Unmitigated Construction On-Site

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																
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265	6,007.0434	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	6,007.0434	6,007.0434	6,007.0434	1.9428		6,055.6134

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.4 Grading - 2021

Unmitigated Construction Off-Site

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																	
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	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415	147.2943	147.2943	147.2943	4.4300e-003			147.4051
Total	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415	147.2943	147.2943	147.2943	4.4300e-003			147.4051

Mitigated Construction On-Site

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																	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265	0.0000	6,007.043 ⁴	6,007.043 ⁴	1.9428			6,055.613 ⁴
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	0.0000	6,007.043⁴	6,007.043⁴	1.9428			6,055.613⁴

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.4 Grading - 2021

Mitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415	147.2943	147.2943	147.2943	4.4300e-003			147.4051
Total	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415	147.2943	147.2943	147.2943	4.4300e-003			147.4051

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621	1.6349	1.6349	1.6349	1.5041	1.5041	1.5041	6,011.4105	6,011.4105	6,011.4105	1.9442			6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006	6,011.4105	6,011.4105	6,011.4105	1.9442			6,060.0158

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.4 Grading - 2022

Unmitigated Construction Off-Site

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																
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	0.0665	0.0416	0.4861	1.4300e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415	142.1207	142.1207	142.1207	4.0000e-003		142.2207
Total	0.0665	0.0416	0.4861	1.4300e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415		142.1207	142.1207	4.0000e-003		142.2207

Mitigated Construction On-Site

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																
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349	1.5041		1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.4 Grading - 2022

Mitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.0665	0.0416	0.4861	1.4300e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415	142.1207	142.1207	142.1207	4.0000e-003			142.2207
Total	0.0665	0.0416	0.4861	1.4300e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415	142.1207	142.1207	142.1207	4.0000e-003			142.2207

3.5 Building Construction - 2022

Unmitigated Construction On-Site

Category	lb/day											lb/day					
	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	
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

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2022
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881	3,789.0750	0	3,789.0750	0.2381			3,795.0283
Worker	2.6620	1.6677	19.4699	0.0571	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617	5,691.9354	4	5,691.9354	0.1602			5,695.9408
Total	3.0904	14.8350	23.2704	0.0926	7.0087	0.0749	7.0836	1.8799	0.0699	1.9498	9,481.0104	4	9,481.0104	0.3984			9,490.9691

Mitigated Construction On-Site

Category	lb/day																
	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	
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

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2022

Mitigated Construction Off-Site

Category	lb/day											lb/day				CO2e	
	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		
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	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881	3,789.0750	0.2381	3,795.0283	0.2381			3,795.0283
Worker	2.6620	1.6677	19.4699	0.0571	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617	5,691.9354	0.1602	5,695.9408	0.1602			5,695.9408
Total	3.0904	14.8350	23.2704	0.0926	7.0087	0.0749	7.0836	1.8799	0.0699	1.9488	9,481.0104	0.3984	9,490.9691	0.3984			9,490.9691

3.5 Building Construction - 2023

Unmitigated Construction On-Site

Category	lb/day											lb/day				CO2e	
	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		
Off-Road	1.5728	14.3849	16.2440	0.0269	0.6997	0.6997	0.6997	0.6584	0.6584	0.6584	2,555.2099	0.6079	2,570.4061	0.6079			2,570.4061
Total	1.5728	14.3849	16.2440	0.0269	0.6997	0.6997	0.6997	0.6584	0.6584	0.6584	2,555.2099	0.6079	2,570.4061	0.6079			2,570.4061

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752	3,671.4007	3,671.4007	3,671.4007	0.2096			3,676.6417
Worker	2.5029	1.5073	17.8820	0.0550	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604	5,483.7974	5,483.7974	5,483.7974	0.1442			5,487.4020
Total	2.8211	11.4799	21.2591	0.0893	7.0088	0.0601	7.0688	1.8799	0.0557	1.9356	9,155.1981	9,155.1981	9,155.1981	0.3538			9,164.0437

Mitigated Construction On-Site

Category	lb/day																
	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	
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

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023

Mitigated Construction Off-Site

Category	lb/day																
	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	
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	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752	3,671.4007	3,671.4007	3,671.4007	0.2096			3,676.6417
Worker	2.5029	1.5073	17.8820	0.0550	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604	5,483.7974	5,483.7974	5,483.7974	0.1442			5,487.4020
Total	2.8211	11.4799	21.2591	0.0893	7.0088	0.0601	7.0688	1.8799	0.0557	1.9356	9,155.1981	9,155.1981	9,155.1981	0.3538			9,164.0437

3.6 Paving - 2023

Unmitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.0327	10.1917	14.5842	0.0228	0.5102	0.5102	0.5102	0.4694	0.4694	0.4694	2,207.5841	2,207.5841	2,207.5841	0.7140			2,225.4336
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Total	1.0327	10.1917	14.5842	0.0228	0.5102	0.5102	0.5102	0.4694	0.4694	0.4694	2,207.5841	2,207.5841	2,207.5841	0.7140			2,225.4336

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	0.0469	0.0282	0.3349	1.0300e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311	102.6928	102.6928	2.7000e-003	2.7000e-003	102.7603	102.7603	102.7603
Total	0.0469	0.0282	0.3349	1.0300e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311	102.6928	102.6928	2.7000e-003	2.7000e-003	102.7603	102.7603	102.7603

Mitigated Construction On-Site

Category	lb/day																
	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	
Off-Road	1.0327	10.1917	14.5842	0.0228	0.5102	0.5102	0.5102	0.4694	0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140	0.7140	2,225.4336	2,225.4336
Paving	0.0000				0.0000	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	1.0327	10.1917	14.5842	0.0228	0.5102	0.5102	0.5102	0.4694	0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140	0.7140	2,225.4336	2,225.4336

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

Mitigated Construction Off-Site

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																
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	0.0469	0.0282	0.3349	1.0300e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311	102.6928	102.6928	2.7000e-003	2.7000e-003	102.7603	102.7603
Total	0.0469	0.0282	0.3349	1.0300e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311	102.6928	102.6928	2.7000e-003	2.7000e-003	102.7603	102.7603

3.6 Paving - 2024

Unmitigated Construction On-Site

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																
Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	2,207.547 ²	2,207.547 ²	2,207.547 ²	0.7140	0.7140	2,225.396 ³
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228	0.4685	0.4685	0.4685	0.4310	0.4310	0.4310	2,207.547²	2,207.547²	2,207.547²	0.7140	0.7140	2,225.396³

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.6 Paving - 2024

Unmitigated Construction Off-Site

Category	lb/day											lb/day					
	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	
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	0.0444	0.0257	0.3114	1.0000e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311	99.5045	99.5045	2.4700e-003	2.4700e-003			99.5663
Total	0.0444	0.0257	0.3114	1.0000e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311	99.5045	99.5045	2.4700e-003	2.4700e-003			99.5663

Mitigated Construction On-Site

Category	lb/day											lb/day					
	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	
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685	0.4310	0.4310	0.4310	0.0000	2,207.547 ²	2,207.547 ²	0.7140			2,225.396 ³
Paving	0.0000					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685	0.4310	0.4310	0.4310	0.0000	2,207.547²	2,207.547²	0.7140			2,225.396³

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.6 Paving - 2024

Mitigated Construction Off-Site

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																	
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	0.0444	0.0257	0.3114	1.0000e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311	99.5045	99.5045	99.5045	2.4700e-003			99.5663
Total	0.0444	0.0257	0.3114	1.0000e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311	99.5045	99.5045	99.5045	2.4700e-003			99.5663

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

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																	
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609			281.4481	0.0159			281.8443
Total	236.5923	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609			281.4481	0.0159			281.8443

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	0.4734	0.2743	3.3220	0.0107	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315	1,061.3818	1,061.3818	1,061.3818	0.0264			1,062.0410
Total	0.4734	0.2743	3.3220	0.0107	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315	1,061.3818	1,061.3818	1,061.3818	0.0264			1,062.0410

Mitigated Construction On-Site

Category	lb/day																
	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	
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609	0.0609	0.0609	0.0609	0.0000	281.4481	281.4481	0.0159			281.8443
Total	236.5923	1.2188	1.8101	2.9700e-003		0.0609	0.0609	0.0609	0.0609	0.0609	0.0000	281.4481	281.4481	0.0159			281.8443

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

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																
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	0.4734	0.2743	3.3220	0.0107	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315	1,061.3818	1,061.3818	0.0264	0.0264	0.0000	1,062.0410
Total	0.4734	0.2743	3.3220	0.0107	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315	1,061.3818	1,061.3818	0.0264	0.0264		1,062.0410

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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															
Mitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083	47,917.8005	47,917.8005	2.1953			47,972.6839
Unmitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083	47,917.8005	47,917.8005	2.1953			47,972.6839

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452	20,552,452	20,552,452

4.3 Trip Type Information

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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	H-O or C-NW	Primary	Diverted	Pass-by		
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	19.00	77	19	4		
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	19.00	37	20	43		
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	19.00	58	38	4		
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	19.00	38	18	44		
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	19.00	54	35	11		

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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																
Natural Gas Mitigated	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Natural Gas Unmitigated	0.7660	6.7462	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBtu/yr	lb/day										lb/day					
		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
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	131.6662	131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211	0.2666	0.2666	0.2666	0.2666	0.2666	0.2666	4.209.9164	4.209.9164	4.209.9164	0.0807	0.0772	4.234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	150.9911	150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134	0.1696	0.1696	0.1696	0.1696	0.1696	0.1696	2.677.6342	2.677.6342	2.677.6342	0.0513	0.0491	2.693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	561.1436	561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	595.0298	595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.6019	29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		0.7660	6.7463	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292	8,355.9832	8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day					
		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
Apartments Low Rise	1,11916	0.0121	0.1031	0.0439	6.6000e-004	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	8.3400e-003	131.6662	131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35,7843	0.3859	3.2978	1.4033	0.0211	0.2666	0.2666	0.2666	0.2666	0.2666	0.2666	4,209.9164	4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1,28342	0.0138	0.1258	0.1057	7.5000e-004	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	9.5600e-003	150.9911	150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22,7599	0.2455	2.2314	1.8743	0.0134	0.1696	0.1696	0.1696	0.1696	0.1696	0.1696	2,677.6342	2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4,76972	0.0514	0.4676	0.3928	2.8100e-003	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	561.1436	561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5,05775	0.0545	0.4959	0.4165	2.9800e-003	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	595.0298	595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0,251616	2.7100e-003	0.0247	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.6019	29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		0.7660	6.7463	4.2573	0.0418	0.5292	0.5292	0.5292	0.5292	0.5292	0.5292	8,355.9832	8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

6.0 Area Detail

6.1 Mitigation Measures Area

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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																
Mitigated	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Unmitigated	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92

6.2 Area by SubCategory

Unmitigated

SubCategory	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																
Architectural Coating	2.2670				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900	1.1400	1.1400	1.1400	1.1400	1.1400	1.1400	0.0000	18,000.00 00	18,000.00 00	0.3450	0.3300	18,106.96 50
Landscaping	2.4766	0.9496	82.4430	4.3600e-003	0.4574	0.4574	0.4574	0.4574	0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Mitigated

SubCategory	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																
Architectural Coating	2.2670				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900	1.1400	1.1400	1.1400	1.1400	1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003	0.4574	0.4574	0.4574	0.4574	0.4574	0.4574	148.5950	148.5950	148.5950	0.1424		152.1542
Total	30.5020	15.0496	88.4430	0.0944	1.5974	1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

Attachment C

Local Hire Provision Net Change	
Without Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,623
Amortized (MT CO2e/year)	120.77
With Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,024
Amortized (MT CO2e/year)	100.80
<i>% Decrease in Construction-related GHG Emissions</i>	<i>17%</i>

EXHIBIT B

Paul Rosenfeld, Ph.D.**Chemical Fate and Transport & Air Dispersion Modeling***Principal Environmental Chemist***Risk Assessment & Remediation Specialist****Education**

Ph.D. Soil Chemistry, University of Washington, 1999. Dissertation on volatile organic compound filtration.

M.S. Environmental Science, U.C. Berkeley, 1995. Thesis on organic waste economics.

B.A. Environmental Studies, U.C. Santa Barbara, 1991. Thesis on wastewater treatment.

Professional Experience

Dr. Rosenfeld has over 25 years' experience conducting environmental investigations and risk assessments for evaluating impacts to human health, property, and ecological receptors. His expertise focuses on the fate and transport of environmental contaminants, human health risk, exposure assessment, and ecological restoration. Dr. Rosenfeld has evaluated and modeled emissions from unconventional oil drilling operations, oil spills, landfills, boilers and incinerators, process stacks, storage tanks, confined animal feeding operations, and many other industrial and agricultural sources. His project experience ranges from monitoring and modeling of pollution sources to evaluating impacts of pollution on workers at industrial facilities and residents in surrounding communities.

Dr. Rosenfeld has investigated and designed remediation programs and risk assessments for contaminated sites containing lead, heavy metals, mold, bacteria, particulate matter, petroleum hydrocarbons, chlorinated solvents, pesticides, radioactive waste, dioxins and furans, semi- and volatile organic compounds, PCBs, PAHs, perchlorate, asbestos, per- and poly-fluoroalkyl substances (PFOA/PFOS), unusual polymers, fuel oxygenates (MTBE), among other pollutants. Dr. Rosenfeld also has experience evaluating greenhouse gas emissions from various projects and is an expert on the assessment of odors from industrial and agricultural sites, as well as the evaluation of odor nuisance impacts and technologies for abatement of odorous emissions. As a principal scientist at SWAPE, Dr. Rosenfeld directs air dispersion modeling and exposure assessments. He has served as an expert witness and testified about pollution sources causing nuisance and/or personal injury at dozens of sites and has testified as an expert witness on more than ten cases involving exposure to air contaminants from industrial sources.

Professional History:

Soil Water Air Protection Enterprise (SWAPE); 2003 to present; Principal and Founding Partner
UCLA School of Public Health; 2007 to 2011; Lecturer (Assistant Researcher)
UCLA School of Public Health; 2003 to 2006; Adjunct Professor
UCLA Environmental Science and Engineering Program; 2002-2004; Doctoral Intern Coordinator
UCLA Institute of the Environment, 2001-2002; Research Associate
Komex H₂O Science, 2001 to 2003; Senior Remediation Scientist
National Groundwater Association, 2002-2004; Lecturer
San Diego State University, 1999-2001; Adjunct Professor
Anteon Corp., San Diego, 2000-2001; Remediation Project Manager
Ogden (now Amec), San Diego, 2000-2000; Remediation Project Manager
Bechtel, San Diego, California, 1999 – 2000; Risk Assessor
King County, Seattle, 1996 – 1999; Scientist
James River Corp., Washington, 1995-96; Scientist
Big Creek Lumber, Davenport, California, 1995; Scientist
Plumas Corp., California and USFS, Tahoe 1993-1995; Scientist
Peace Corps and World Wildlife Fund, St. Kitts, West Indies, 1991-1993; Scientist

Publications:

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Hensley A.R., Scott, A., **Rosenfeld P.E.**, Clark, J.J.J. (August 21 – 25, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *The 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN2006*. Lecture conducted from Radisson SAS Scandinavia Hotel in Oslo Norway.

Hensley A.R., Scott, A., **Rosenfeld P.E.**, Clark, J.J.J. (November 4-8, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *APHA 134 Annual Meeting & Exposition*. Lecture conducted from Boston Massachusetts.

Paul Rosenfeld Ph.D. (October 24-25, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. Mealey's C8/PFOA. *Science, Risk & Litigation Conference*. Lecture conducted from The Rittenhouse Hotel, Philadelphia, PA.

Paul Rosenfeld Ph.D. (September 19, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, *Toxicology and Remediation PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel, Irvine California.

Paul Rosenfeld Ph.D. (September 19, 2005). Fate, Transport, Toxicity, And Persistence of 1,2,3-TCP. *PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel in Irvine, California.

Paul Rosenfeld Ph.D. (September 26-27, 2005). Fate, Transport and Persistence of PDBEs. *Mealey's Groundwater Conference*. Lecture conducted from Ritz Carlton Hotel, Marina Del Ray, California.

Paul Rosenfeld Ph.D. (June 7-8, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. *International Society of Environmental Forensics: Focus On Emerging Contaminants*. Lecture conducted from Sheraton Oceanfront Hotel, Virginia Beach, Virginia.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Fate Transport, Persistence and Toxicology of PFOA and Related Perfluorochemicals. *2005 National Groundwater Association Ground Water And Environmental Law Conference*. Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, Toxicology and Remediation. *2005 National Groundwater Association Ground Water and Environmental Law Conference*. Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. and Rob Hesse R.G. (May 5-6, 2004). Tert-butyl Alcohol Liability and Toxicology, A National Problem and Unquantified Liability. *National Groundwater Association. Environmental Law Conference*. Lecture conducted from Congress Plaza Hotel, Chicago Illinois.

Paul Rosenfeld, Ph.D. (March 2004). Perchlorate Toxicology. *Meeting of the American Groundwater Trust*. Lecture conducted from Phoenix Arizona.

Hagemann, M.F., **Paul Rosenfeld, Ph.D.** and Rob Hesse (2004). Perchlorate Contamination of the Colorado River. *Meeting of tribal representatives*. Lecture conducted from Parker, AZ.

Paul Rosenfeld, Ph.D. (April 7, 2004). A National Damage Assessment Model For PCE and Dry Cleaners. *Drycleaner Symposium. California Ground Water Association*. Lecture conducted from Radison Hotel, Sacramento, California.

Rosenfeld, P. E., Grey, M., (June 2003) Two stage biofilter for biosolids composting odor control. *Seventh International In Situ And On Site Bioremediation Symposium Battelle Conference* Orlando, FL.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. (February 20-21, 2003) Understanding Historical Use, Chemical Properties, Toxicity and Regulatory Guidance of 1,4 Dioxane. *National Groundwater Association. Southwest Focus Conference. Water Supply and Emerging Contaminants..* Lecture conducted from Hyatt Regency Phoenix Arizona.

Paul Rosenfeld, Ph.D. (February 6-7, 2003). Underground Storage Tank Litigation and Remediation. *California CUPA Forum*. Lecture conducted from Marriott Hotel, Anaheim California.

Paul Rosenfeld, Ph.D. (October 23, 2002) Underground Storage Tank Litigation and Remediation. *EPA Underground Storage Tank Roundtable*. Lecture conducted from Sacramento California.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Understanding Odor from Compost, *Wastewater and Industrial Processes. Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Using High Carbon Wood Ash to Control Compost Odor. *Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Grey, M. A. (September 22-24, 2002). Biocycle Composting For Coastal Sage Restoration. *Northwest Biosolids Management Association*. Lecture conducted from Vancouver Washington..

Rosenfeld, P.E. and Grey, M. A. (November 11-14, 2002). Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Soil Science Society Annual Conference*. Lecture conducted from Indianapolis, Maryland.

Rosenfeld, P.E. (September 16, 2000). Two stage biofilter for biosolids composting odor control. *Water Environment Federation*. Lecture conducted from Anaheim California.

Rosenfeld, P.E. (October 16, 2000). Wood ash and biofilter control of compost odor. *Biofest*. Lecture conducted from Ocean Shores, California.

Rosenfeld, P.E. (2000). Bioremediation Using Organic Soil Amendments. *California Resource Recovery Association*. Lecture conducted from Sacramento California.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. *Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings*. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., and C.L. Henry. (1999). An evaluation of ash incorporation with biosolids for odor reduction. *Soil Science Society of America*. Lecture conducted from Salt Lake City Utah.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Comparison of Microbial Activity and Odor Emissions from Three Different Biosolids Applied to Forest Soil. *Brown and Caldwell*. Lecture conducted from Seattle Washington.

Rosenfeld, P.E., C.L. Henry. (1998). Characterization, Quantification, and Control of Odor Emissions from Biosolids Application To Forest Soil. *Biofest*. Lecture conducted from Lake Chelan, Washington.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., C.L. Henry, R. B. Harrison, and R. Dills. (1997). Comparison of Odor Emissions From Three Different Biosolids Applied to Forest Soil. *Soil Science Society of America*. Lecture conducted from Anaheim California.

Teaching Experience:

UCLA Department of Environmental Health (Summer 2003 through 2010) Taught Environmental Health Science 100 to students, including undergrad, medical doctors, public health professionals and nurses. Course focused on the health effects of environmental contaminants.

National Ground Water Association, Successful Remediation Technologies. Custom Course in Sante Fe, New Mexico. May 21, 2002. Focused on fate and transport of fuel contaminants associated with underground storage tanks.

National Ground Water Association; Successful Remediation Technologies Course in Chicago Illinois. April 1, 2002. Focused on fate and transport of contaminants associated with Superfund and RCRA sites.

California Integrated Waste Management Board, April and May, 2001. Alternative Landfill Caps Seminar in San Diego, Ventura, and San Francisco. Focused on both prescriptive and innovative landfill cover design.

UCLA Department of Environmental Engineering, February 5, 2002. Seminar on Successful Remediation Technologies focusing on Groundwater Remediation.

University Of Washington, Soil Science Program, Teaching Assistant for several courses including: Soil Chemistry, Organic Soil Amendments, and Soil Stability.

U.C. Berkeley, Environmental Science Program Teaching Assistant for Environmental Science 10.

Academic Grants Awarded:

California Integrated Waste Management Board. \$41,000 grant awarded to UCLA Institute of the Environment. Goal: To investigate effect of high carbon wood ash on volatile organic emissions from compost. 2001.

Synagro Technologies, Corona California: \$10,000 grant awarded to San Diego State University. Goal: investigate effect of biosolids for restoration and remediation of degraded coastal sage soils. 2000.

King County, Department of Research and Technology, Washington State. \$100,000 grant awarded to University of Washington: Goal: To investigate odor emissions from biosolids application and the effect of polymers and ash on VOC emissions. 1998.

Northwest Biosolids Management Association, Washington State. \$20,000 grant awarded to investigate effect of polymers and ash on VOC emissions from biosolids. 1997.

James River Corporation, Oregon: \$10,000 grant was awarded to investigate the success of genetically engineered Poplar trees with resistance to round-up. 1996.

United State Forest Service, Tahoe National Forest: \$15,000 grant was awarded to investigating fire ecology of the Tahoe National Forest. 1995.

Kellogg Foundation, Washington D.C. \$500 grant was awarded to construct a large anaerobic digester on St. Kitts in West Indies. 1993

Deposition and/or Trial Testimony:

In the United States District Court For The District of New Jersey

Duarte et al, *Plaintiffs*, vs. United States Metals Refining Company et. al. *Defendant*.

Case No.: 2:17-cv-01624-ES-SCM

Rosenfeld Deposition. 6-7-2019

In the United States District Court of Southern District of Texas Galveston Division

M/T Carla Maersk, *Plaintiffs*, vs. Conti 168., Schiffahrts-GMBH & Co. Bulker KG MS “Conti Perdido”
Defendant.

Case No.: 3:15-CV-00106 consolidated with 3:15-CV-00237

Rosenfeld Deposition. 5-9-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica

Carole-Taddeo-Bates et al., vs. Ifran Khan et al., Defendants

Case No.: No. BC615636

Rosenfeld Deposition, 1-26-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica

The San Gabriel Valley Council of Governments et al. vs El Adobe Apts. Inc. et al., Defendants

Case No.: No. BC646857

Rosenfeld Deposition, 10-6-2018; Trial 3-7-19

In United States District Court For The District of Colorado

Bells et al. Plaintiff vs. The 3M Company et al., Defendants

Case: No 1:16-cv-02531-RBJ

Rosenfeld Deposition, 3-15-2018 and 4-3-2018

In The District Court Of Regan County, Texas, 112th Judicial District

Phillip Bales et al., Plaintiff vs. Dow Agrosiences, LLC, et al., Defendants

Cause No 1923

Rosenfeld Deposition, 11-17-2017

In The Superior Court of the State of California In And For The County Of Contra Costa

Simons et al., Plaintiffs vs. Chevron Corporation, et al., Defendants

Cause No C12-01481

Rosenfeld Deposition, 11-20-2017

In The Circuit Court Of The Twentieth Judicial Circuit, St Clair County, Illinois

Martha Custer et al., Plaintiff vs. Cerro Flow Products, Inc., Defendants

Case No.: No. 0i9-L-2295

Rosenfeld Deposition, 8-23-2017

In The Superior Court of the State of California, For The County of Los Angeles

Warrn Gilbert and Penny Gilber, Plaintiff vs. BMW of North America LLC

Case No.: LC102019 (c/w BC582154)

Rosenfeld Deposition, 8-16-2017, Trail 8-28-2018

In the Northern District Court of Mississippi, Greenville Division

Brenda J. Cooper, et al., *Plaintiffs*, vs. Meritor Inc., et al., *Defendants*

Case Number: 4:16-cv-52-DMB-JVM

Rosenfeld Deposition: July 2017

In The Superior Court of the State of Washington, County of Snohomish
Michael Davis and Julie Davis et al., Plaintiff vs. Cedar Grove Composting Inc., Defendants
Case No.: No. 13-2-03987-5
Rosenfeld Deposition, February 2017
Trial, March 2017

In The Superior Court of the State of California, County of Alameda
Charles Spain., Plaintiff vs. Thermo Fisher Scientific, et al., Defendants
Case No.: RG14711115
Rosenfeld Deposition, September 2015

In The Iowa District Court In And For Poweshiek County
Russell D. Winburn, et al., Plaintiffs vs. Doug Hoksbergen, et al., Defendants
Case No.: LALA002187
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Jerry Dovico, et al., Plaintiffs vs. Valley View Sine LLC, et al., Defendants
Law No.: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Doug Pauls, et al., et al., Plaintiffs vs. Richard Warren, et al., Defendants
Law No.: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Circuit Court of Ohio County, West Virginia
Robert Andrews, et al. v. Antero, et al.
Civil Action NO. 14-C-30000
Rosenfeld Deposition, June 2015

In The Third Judicial District County of Dona Ana, New Mexico
Betty Gonzalez, et al. Plaintiffs vs. Del Oro Dairy, Del Oro Real Estate LLC, Jerry Settles and Deward
DeRuyter, Defendants
Rosenfeld Deposition: July 2015

In The Iowa District Court For Muscatine County
Laurie Freeman et. al. Plaintiffs vs. Grain Processing Corporation, Defendant
Case No 4980
Rosenfeld Deposition: May 2015

In the Circuit Court of the 17th Judicial Circuit, in and For Broward County, Florida
Walter Hinton, et. al. Plaintiff, vs. City of Fort Lauderdale, Florida, a Municipality, Defendant.
Case Number CACE07030358 (26)
Rosenfeld Deposition: December 2014

In the United States District Court Western District of Oklahoma
Tommy McCarty, et al., Plaintiffs, v. Oklahoma City Landfill, LLC d/b/a Southeast Oklahoma City
Landfill, et al. Defendants.
Case No. 5:12-cv-01152-C
Rosenfeld Deposition: July 2014

In the County Court of Dallas County Texas
Lisa Parr et al, *Plaintiff*, vs. Aruba et al, *Defendant*.
Case Number cc-11-01650-E
Rosenfeld Deposition: March and September 2013
Rosenfeld Trial: April 2014

In the Court of Common Pleas of Tuscarawas County Ohio
John Michael Abicht, et al., *Plaintiffs*, vs. Republic Services, Inc., et al., *Defendants*
Case Number: 2008 CT 10 0741 (Cons. w/ 2009 CV 10 0987)
Rosenfeld Deposition: October 2012

In the United States District Court of Southern District of Texas Galveston Division
Kyle Cannon, Eugene Donovan, Genaro Ramirez, Carol Sassler, and Harvey Walton, each Individually and on behalf of those similarly situated, *Plaintiffs*, vs. BP Products North America, Inc., *Defendant*.
Case 3:10-cv-00622
Rosenfeld Deposition: February 2012
Rosenfeld Trial: April 2013

In the Circuit Court of Baltimore County Maryland
Philip E. Cvach, II et al., *Plaintiffs* vs. Two Farms, Inc. d/b/a Royal Farms, Defendants
Case Number: 03-C-12-012487 OT
Rosenfeld Deposition: September 2013

EXHIBIT C



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Matthew F. Hagemann, P.G., C.Hg., QSD, QSP

**Geologic and Hydrogeologic Characterization
Industrial Stormwater Compliance
Investigation and Remediation Strategies
Litigation Support and Testifying Expert
CEQA Review**

Education:

M.S. Degree, Geology, California State University Los Angeles, Los Angeles, CA, 1984.

B.A. Degree, Geology, Humboldt State University, Arcata, CA, 1982.

Professional Certifications:

California Professional Geologist

California Certified Hydrogeologist

Qualified SWPPP Developer and Practitioner

Professional Experience:

Matt has 25 years of experience in environmental policy, assessment and remediation. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Matt also served as a Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closure. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) while also working with permit holders to improve hydrogeologic characterization and water quality monitoring.

Matt has worked closely with U.S. EPA legal counsel and the technical staff of several states in the application and enforcement of RCRA, Safe Drinking Water Act and Clean Water Act regulations. Matt has trained the technical staff in the States of California, Hawaii, Nevada, Arizona and the Territory of Guam in the conduct of investigations, groundwater fundamentals, and sampling techniques.

Positions Matt has held include:

- Founding Partner, Soil/Water/Air Protection Enterprise (SWAPE) (2003 – present);
- Geology Instructor, Golden West College, 2010 – 2014;
- Senior Environmental Analyst, Komex H2O Science, Inc. (2000 -- 2003);

- Executive Director, Orange Coast Watch (2001 – 2004);
- Senior Science Policy Advisor and Hydrogeologist, U.S. Environmental Protection Agency (1989–1998);
- Hydrogeologist, National Park Service, Water Resources Division (1998 – 2000);
- Adjunct Faculty Member, San Francisco State University, Department of Geosciences (1993 – 1998);
- Instructor, College of Marin, Department of Science (1990 – 1995);
- Geologist, U.S. Forest Service (1986 – 1998); and
- Geologist, Dames & Moore (1984 – 1986).

Senior Regulatory and Litigation Support Analyst:

With SWAPE, Matt’s responsibilities have included:

- Lead analyst and testifying expert in the review of over 100 environmental impact reports since 2003 under CEQA that identify significant issues with regard to hazardous waste, water resources, water quality, air quality, Valley Fever, greenhouse gas emissions, and geologic hazards. Make recommendations for additional mitigation measures to lead agencies at the local and county level to include additional characterization of health risks and implementation of protective measures to reduce worker exposure to hazards from toxins and Valley Fever.
- Stormwater analysis, sampling and best management practice evaluation at industrial facilities.
- Manager of a project to provide technical assistance to a community adjacent to a former Naval shipyard under a grant from the U.S. EPA.
- Technical assistance and litigation support for vapor intrusion concerns.
- Lead analyst and testifying expert in the review of environmental issues in license applications for large solar power plants before the California Energy Commission.
- Manager of a project to evaluate numerous formerly used military sites in the western U.S.
- Manager of a comprehensive evaluation of potential sources of perchlorate contamination in Southern California drinking water wells.
- Manager and designated expert for litigation support under provisions of Proposition 65 in the review of releases of gasoline to sources drinking water at major refineries and hundreds of gas stations throughout California.
- Expert witness on two cases involving MTBE litigation.
- Expert witness and litigation support on the impact of air toxins and hazards at a school.
- Expert witness in litigation at a former plywood plant.

With Komex H2O Science Inc., Matt’s duties included the following:

- Senior author of a report on the extent of perchlorate contamination that was used in testimony by the former U.S. EPA Administrator and General Counsel.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of MTBE use, research, and regulation.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of perchlorate use, research, and regulation.
- Senior researcher in a study that estimates nationwide costs for MTBE remediation and drinking water treatment, results of which were published in newspapers nationwide and in testimony against provisions of an energy bill that would limit liability for oil companies.
- Research to support litigation to restore drinking water supplies that have been contaminated by MTBE in California and New York.

- Expert witness testimony in a case of oil production-related contamination in Mississippi.
- Lead author for a multi-volume remedial investigation report for an operating school in Los Angeles that met strict regulatory requirements and rigorous deadlines.

- Development of strategic approaches for cleanup of contaminated sites in consultation with clients and regulators.

Executive Director:

As Executive Director with Orange Coast Watch, Matt led efforts to restore water quality at Orange County beaches from multiple sources of contamination including urban runoff and the discharge of wastewater. In reporting to a Board of Directors that included representatives from leading Orange County universities and businesses, Matt prepared issue papers in the areas of treatment and disinfection of wastewater and control of the discharge of grease to sewer systems. Matt actively participated in the development of countywide water quality permits for the control of urban runoff and permits for the discharge of wastewater. Matt worked with other nonprofits to protect and restore water quality, including Surfrider, Natural Resources Defense Council and Orange County CoastKeeper as well as with business institutions including the Orange County Business Council.

Hydrogeology:

As a Senior Hydrogeologist with the U.S. Environmental Protection Agency, Matt led investigations to characterize and cleanup closing military bases, including Mare Island Naval Shipyard, Hunters Point Naval Shipyard, Treasure Island Naval Station, Alameda Naval Station, Moffett Field, Mather Army Airfield, and Sacramento Army Depot. Specific activities were as follows:

- Led efforts to model groundwater flow and contaminant transport, ensured adequacy of monitoring networks, and assessed cleanup alternatives for contaminated sediment, soil, and groundwater.
- Initiated a regional program for evaluation of groundwater sampling practices and laboratory analysis at military bases.
- Identified emerging issues, wrote technical guidance, and assisted in policy and regulation development through work on four national U.S. EPA workgroups, including the Superfund Groundwater Technical Forum and the Federal Facilities Forum.

At the request of the State of Hawaii, Matt developed a methodology to determine the vulnerability of groundwater to contamination on the islands of Maui and Oahu. He used analytical models and a GIS to show zones of vulnerability, and the results were adopted and published by the State of Hawaii and County of Maui.

As a hydrogeologist with the EPA Groundwater Protection Section, Matt worked with provisions of the Safe Drinking Water Act and NEPA to prevent drinking water contamination. Specific activities included the following:

- Received an EPA Bronze Medal for his contribution to the development of national guidance for the protection of drinking water.
- Managed the Sole Source Aquifer Program and protected the drinking water of two communities through designation under the Safe Drinking Water Act. He prepared geologic reports, conducted public hearings, and responded to public comments from residents who were very concerned about the impact of designation.

- Reviewed a number of Environmental Impact Statements for planned major developments, including large hazardous and solid waste disposal facilities, mine reclamation, and water transfer.

Matt served as a hydrogeologist with the RCRA Hazardous Waste program. Duties were as follows:

- Supervised the hydrogeologic investigation of hazardous waste sites to determine compliance with Subtitle C requirements.
- Reviewed and wrote "part B" permits for the disposal of hazardous waste.
- Conducted RCRA Corrective Action investigations of waste sites and led inspections that formed the basis for significant enforcement actions that were developed in close coordination with U.S. EPA legal counsel.
- Wrote contract specifications and supervised contractor's investigations of waste sites.

With the National Park Service, Matt directed service-wide investigations of contaminant sources to prevent degradation of water quality, including the following tasks:

- Applied pertinent laws and regulations including CERCLA, RCRA, NEPA, NRDA, and the Clean Water Act to control military, mining, and landfill contaminants.
- Conducted watershed-scale investigations of contaminants at parks, including Yellowstone and Olympic National Park.
- Identified high-levels of perchlorate in soil adjacent to a national park in New Mexico and advised park superintendent on appropriate response actions under CERCLA.
- Served as a Park Service representative on the Interagency Perchlorate Steering Committee, a national workgroup.
- Developed a program to conduct environmental compliance audits of all National Parks while serving on a national workgroup.
- Co-authored two papers on the potential for water contamination from the operation of personal watercraft and snowmobiles, these papers serving as the basis for the development of nation-wide policy on the use of these vehicles in National Parks.
- Contributed to the Federal Multi-Agency Source Water Agreement under the Clean Water Action Plan.

Policy:

Served senior management as the Senior Science Policy Advisor with the U.S. Environmental Protection Agency, Region 9. Activities included the following:

- Advised the Regional Administrator and senior management on emerging issues such as the potential for the gasoline additive MTBE and ammonium perchlorate to contaminate drinking water supplies.
- Shaped EPA's national response to these threats by serving on workgroups and by contributing to guidance, including the Office of Research and Development publication, *Oxygenates in Water: Critical Information and Research Needs*.
- Improved the technical training of EPA's scientific and engineering staff.
- Earned an EPA Bronze Medal for representing the region's 300 scientists and engineers in negotiations with the Administrator and senior management to better integrate scientific principles into the policy-making process.
- Established national protocol for the peer review of scientific documents.

Geology:

With the U.S. Forest Service, Matt led investigations to determine hillslope stability of areas proposed for timber harvest in the central Oregon Coast Range. Specific activities were as follows:

- Mapped geology in the field, and used aerial photographic interpretation and mathematical models to determine slope stability.
- Coordinated his research with community members who were concerned with natural resource protection.
- Characterized the geology of an aquifer that serves as the sole source of drinking water for the city of Medford, Oregon.

As a consultant with Dames and Moore, Matt led geologic investigations of two contaminated sites (later listed on the Superfund NPL) in the Portland, Oregon, area and a large hazardous waste site in eastern Oregon. Duties included the following:

- Supervised year-long effort for soil and groundwater sampling.
- Conducted aquifer tests.
- Investigated active faults beneath sites proposed for hazardous waste disposal.

Teaching:

From 1990 to 1998, Matt taught at least one course per semester at the community college and university levels:

- At San Francisco State University, held an adjunct faculty position and taught courses in environmental geology, oceanography (lab and lecture), hydrogeology, and groundwater contamination.
- Served as a committee member for graduate and undergraduate students.
- Taught courses in environmental geology and oceanography at the College of Marin.

Matt taught physical geology (lecture and lab and introductory geology at Golden West College in Huntington Beach, California from 2010 to 2014.

Invited Testimony, Reports, Papers and Presentations:

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Presentation to the Public Environmental Law Conference, Eugene, Oregon.

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Invited presentation to U.S. EPA Region 9, San Francisco, California.

Hagemann, M.F., 2005. Use of Electronic Databases in Environmental Regulation, Policy Making and Public Participation. Brownfields 2005, Denver, Colorado.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Nevada and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Las Vegas, NV (served on conference organizing committee).

Hagemann, M.F., 2004. Invited testimony to a California Senate committee hearing on air toxins at schools in Southern California, Los Angeles.

Brown, A., Farrow, J., Gray, A. and **Hagemann, M.**, 2004. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to the Ground Water and Environmental Law Conference, National Groundwater Association.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Arizona and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Phoenix, AZ (served on conference organizing committee).

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in the Southwestern U.S. Invited presentation to a special committee meeting of the National Academy of Sciences, Irvine, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a tribal EPA meeting, Pechanga, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a meeting of tribal representatives, Parker, AZ.

Hagemann, M.F., 2003. Impact of Perchlorate on the Colorado River and Associated Drinking Water Supplies. Invited presentation to the Inter-Tribal Meeting, Torres Martinez Tribe.

Hagemann, M.F., 2003. The Emergence of Perchlorate as a Widespread Drinking Water Contaminant. Invited presentation to the U.S. EPA Region 9.

Hagemann, M.F., 2003. A Deductive Approach to the Assessment of Perchlorate Contamination. Invited presentation to the California Assembly Natural Resources Committee.

Hagemann, M.F., 2003. Perchlorate: A Cold War Legacy in Drinking Water. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. From Tank to Tap: A Chronology of MTBE in Groundwater. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. A Chronology of MTBE in Groundwater and an Estimate of Costs to Address Impacts to Groundwater. Presentation to the annual meeting of the Society of Environmental Journalists.

Hagemann, M.F., 2002. An Estimate of the Cost to Address MTBE Contamination in Groundwater (and Who Will Pay). Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to a meeting of the U.S. EPA and State Underground Storage Tank Program managers.

Hagemann, M.F., 2001. From Tank to Tap: A Chronology of MTBE in Groundwater. Unpublished report.

Hagemann, M.F., 2001. Estimated Cleanup Cost for MTBE in Groundwater Used as Drinking Water. Unpublished report.

Hagemann, M.F., 2001. Estimated Costs to Address MTBE Releases from Leaking Underground Storage Tanks. Unpublished report.

Hagemann, M.F., and VanMouwerik, M., 1999. Potential Water Quality Concerns Related to Snowmobile Usage. Water Resources Division, National Park Service, Technical Report.

VanMouwerik, M. and **Hagemann, M.F.** 1999, Water Quality Concerns Related to Personal Watercraft Usage. Water Resources Division, National Park Service, Technical Report.

Hagemann, M.F., 1999, Is Dilution the Solution to Pollution in National Parks? The George Wright Society Biannual Meeting, Asheville, North Carolina.

Hagemann, M.F., 1997, The Potential for MTBE to Contaminate Groundwater. U.S. EPA Superfund Groundwater Technical Forum Annual Meeting, Las Vegas, Nevada.

Hagemann, M.F., and Gill, M., 1996, Impediments to Intrinsic Remediation, Moffett Field Naval Air Station, Conference on Intrinsic Remediation of Chlorinated Hydrocarbons, Salt Lake City.

Hagemann, M.F., Fukunaga, G.L., 1996, The Vulnerability of Groundwater to Anthropogenic Contaminants on the Island of Maui, Hawaii. Hawaii Water Works Association Annual Meeting, Maui, October 1996.

Hagemann, M. F., Fukanaga, G. L., 1996, Ranking Groundwater Vulnerability in Central Oahu, Hawaii. Proceedings, Geographic Information Systems in Environmental Resources Management, Air and Waste Management Association Publication VIP-61.

Hagemann, M.F., 1994. Groundwater Characterization and Cleanup at Closing Military Bases in California. Proceedings, California Groundwater Resources Association Meeting.

Hagemann, M.F. and Sabol, M.A., 1993. Role of the U.S. EPA in the High Plains States Groundwater Recharge Demonstration Program. Proceedings, Sixth Biennial Symposium on the Artificial Recharge of Groundwater.

Hagemann, M.F., 1993. U.S. EPA Policy on the Technical Impracticability of the Cleanup of DNAPL-contaminated Groundwater. California Groundwater Resources Association Meeting.

Hagemann, M.F., 1992. Dense Nonaqueous Phase Liquid Contamination of Groundwater: An Ounce of Prevention... Proceedings, Association of Engineering Geologists Annual Meeting, v. 35.

Other Experience:

Selected as subject matter expert for the California Professional Geologist licensing examination, 2009-2011.



SIERRA CLUB

SAN DIEGO CHAPTER

Via Email

Admin@JamulTEIR.com

Attn: Chairwoman Erica M. Pinto

Jamul Indian Village of California

CC to:

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Dear MS Pinto and the San Diego County Board of Supervisors:

The Conservation Committee of Sierra Club San Diego has major objections to the addition of a Hotel and Concert venue to the Jamul Casino in rural Jamul and to the inadequacy of the TEIR under the California Environment Quality Act. Such a project would encroach upon and endanger the Rancho Jamul Ecological Reserve, would increase the threat of wildfire, and impede evacuation, create excess noise, produce light pollution in a rural area, increase traffic on an impacted highway, and produce excessive Greenhouse Gas (GHG) emissions.

O3-1

Damage to the Rancho Jamul Ecological Reserve

The proposed Hotel and Concert Project (heretofore Project) would create substantial harm to the Rancho Jamul Ecological Reserve controlled by the California Department of Fish and Wildlife (CDFW).

First, the project would materially encroach on the reserve with huge construction nails to secure the project in otherwise unstable ground. The TEIR states: "Soil nail installation would occur on the edge of the Reservation and extend to off-Reservation areas to the south and west. While soil nails would be installed underground and are not anticipated to directly impact habitat or special-status species, the proximity of construction to off-Reservation areas could indirectly affect off-Reservation special-status species from lighting and noise." The project

O3-2

plans to employ 120 soil nails that are driven 15 to 35 feet into the Rancho Jamul Ecological Reserve, that should be rejected by the CDFW. Soil nails are long, threaded steel bars that are driven underneath the soil into the Reserve. The very fact that soil nails are needed to extend off the Project suggests, on its face, that the project is too close to the Rancho Jamul Ecological Reserve and another location for the Project would be preferred.

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cont.

Second, noise and light from the Project would negatively impact species on the Rancho Jamul Ecological Reserve (these negative effects are detailed in subsequent sections of this letter).

The TEIR recognizes the sensitive nature of nesting bird species when it states: "the 4-acre parcel shall occur outside of the nesting season between February 1 and August 30; if the nesting season cannot be avoided, a qualified biologist shall conduct a pre-construction survey for nesting birds within 10 calendar days prior to the start of construction." Amazingly, the TEIR cannot guarantee that the Project will avoid nesting season at all. Additionally, a 16-story hotel tower next to a wildlife reserve is guaranteed to cause numerous bird collisions. Such a tower is out of character and a threat to the reserve and the Jamul community.

The Rancho Jamul Ecological Reserve is part of the Multiple Species Conservation Program in San Diego that supports an entire ecosystem including plants, animals, birds, and insects many of which are threatened or endangered. Immediately adjacent to the project are gnatcatchers, burrowing owls, many butterfly species including the checkerspot butterflies, hawks, eagles, foxes, and host of other species that would be negatively impacted by construction, light, and noise from the Project.

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Amazingly, given the proximity of the Project to the Preserve, the TEIR says that no "off-reservation" land use policy is required, that there needs of be no mitigation for any environmental effects, and that the Project would not conflict with any "off-reservation" habitat conservation plan. Clearly this is not the case. The final EIR should remediate this deficiency by honestly and fully discussing the Project's impacts on the Rancho Jamul Ecological Reserve and how they will be mitigated.

For the sake of argument, even if we assume the Jamul Indian Village is a "reservation" eligible for a casino under the Indian Gaming Regulatory Act (which it is not), the TEIR is a major admission by the Jamul Indian Village that a key portion of the casino expansion project is to be built on non-reservation land, currently owned by the Wildlife Conservation Board of the State of California, in clear violation of IGRA and State law.

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Wildfire and Evacuation.

The proposed project is in a very high fire zone designated by the County of San Diego and the State of California. The TEIR admits that: "The potential to ignite a fire onsite that would migrate off-Reservation to an area that is deemed very high fire risk is a potentially significant impact." Building a concert venue and hotel next to grass land and chapparal creates

O3-5

considerable increased risk to the residents of Jamul, the Rancho Jamul Ecological Reserve, and the patrons and employees of the casino.

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cont.

The 91935 Zip code, where the Casino is located, is one of the three Zip Codes in the State of California that is most difficult to evacuate ([Three San Diego areas listed as worst for fleeing a wildfire \(10news.com\)](#)). Highway 94 is the only primary route in and out of the Casino and Jamul and has an F traffic grade, the lowest possible rating. Adding hundreds of hotel guests and several thousand concertgoers to this highly impacted evacuation route is a recipe for disaster.

Indeed, the TEIR admits that: “An increase in vehicles on emergency evacuation routes during a wildfire could worsen traffic congestion and adversely affect evacuation timelines or access for emergency responders, which would increase the risk of loss, injury or death involving wildland fires.” A revised EIR needs to provide a detailed evacuation plan, not the brief, confusing, and contradictory account in the TEIR which states that “the Project would not significantly impede evacuation traffic on SR 94 as patrons would be evacuated early and before community wide evacuation, or they would shelter in place at the Casino, which is a fire hardened structure with multiple levels of subterranean parking.”

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This statement regarding evacuation and sheltering is confusing and ambiguous. If Casino and Hotel patrons are evacuated early during an approaching wildfire, they will run into thousands of local residents who are also evacuating early. The other alternative, sheltering in place, is equally problematic. Who would make the decision to shelter in place? The revised EIR needs to provide evidence that patrons would obey a shelter in place order during a wildfire, which is highly doubtful.

Before the project can be approved, an emergency plan needs to be included in the EIR as required by CEQA. The TEIR states that: “the County and the Tribe are currently coordinating an update to the Casino Fire and Emergency Plan that will consider the addition of the Project.” A full evacuation study needs to be conducted and included in a revised EIR.

Noise

The addition of a hotel and concert event center to the existing Jamul Casino would produce a substantial increase in noise that would impact residents of Jamul and the Rancho Jamul Ecological Reserve.

The TEIR admits that there would be a considerable impact of sound on the surrounding area. It states: “A sound system output of 90 dBA Leq at 100 feet was assumed for the proposed covered outdoor event center to be located on the third floor. This level of sound is considered typical of a large concert event with an A-list type performer.” Unfortunately, the event center is not located in an urban setting; it is in a rural area next to a small town and a nature reserve.

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The 90 to 100 decibel sound would have a huge negative effect on the immediate environment. Indeed, that TEIR states that even 60 dBA sound would have large impact. The TEIR declares:

“Therefore, increases of 3 dBA CNEL/Ldn or exceedance of 60 dBA CNEL would constitute a significant off-Reservation impact.”

The TEIR seemingly contradicts the 90 to 100 decibel level when it states: “The Tribe shall engage a qualified acoustic engineer during the first three concerts to verify that the facility is achieving compliance with the applicable exterior noise standards at the nearest residential uses. If the noise levels exceed County’s daytime 50 dBA and nighttime (10:00pm to 7:00am) 45 dBA Leq noise standards, then additional measures shall be performed to reduce the noise levels to acceptable levels. This could include reducing sound volume or ending events before 10 p.m.” A revised EIR needs to decide what decibel level the concerts would produce and if they would violate the prevailing level noise level requirements.

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Additionally, the TEIR mentions that blasting would occur during construction. It states, “However, as no detailed blasting plans have been prepared yet, a potentially significant vibratory impact may occur.” A revised TEIR should provide a detailed estimate of the blasting plans and their impact on the Rancho Jamul Ecological Reserve, Jamul, and the existing casino.

At present, however, the TEIR fails to provide much information about the blasting plan and the associated noise. A revised EIR should provide details on the blasting plan and its impacts. The TEIR states: “A blasting plan, including estimates of the air blast over-pressure level and groundborne vibration at the residence closest to the blast, shall be prepared to ensure that vibration levels do not exceed acceptable level(s). The Plan will be submitted to the Tribe for review prior to the first blast.” To comply with CEQA such a plan should be submitted in a revised EIR so it can be reviewed by all interested parties in addition to the Tribe.

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Nonetheless, the TEIR admits that: “During the construction phases of the Project, noise from construction activities would add to the noise environment in the immediate vicinity of the project site. As indicated in Table 3-16, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dBA. While construction noise would be substantial the TEIR fails to estimate the effect on motorists on highway 94, Jamul residents, patrons at the existing casino, or wildlife in the Rancho Jamul ecological reserve.

The TEIR also refers to noise generated by HVAC system in the hotel and concert center but provides no data on the noise level of the HVAC or its impact on human or animal receptors. A revised EIR would need to provide such data.

O3-9

Light Pollution

The TEIR recognizes that light will constitute a significant impact of the project. Light would emanate from the concert venue and from the windows of the high-rise hotel. The TIER recognizes that light from Project would have impacts that would need to be mitigated. The TEIR states: “Mitigation Measure 3.2-2: The Tribe will implement feasible means to reduce the visibility of parking garage lights, interior hotel lighting, and event center lighting from the surrounding areas, with options to be considered including reducing lighting levels, providing

O3-10

additional shielding, and installing screens along the façades of the facilities, as appropriate.” The revised EIR needs to amplify this mitigation measure and indicate just how a concert venue with bright lights could be mitigated. Moreover, one would presume that there will be windows in the 225-room hotel and that guests, not the Hotel Management, will determine if the lights in their rooms are on and if the shade is open or closed. The revised EIR needs to provide detail on how the hotel light emissions would be controlled.

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cont.

Likewise, light would be emitted during construction, an impact that the TEIR attempts to mitigate. The TEIR states: “Measure 3.2-1: If dusk or nighttime construction activities are necessary at the project site, lighting for those activities shall be strictly limited to the minimum locations necessary for safety and security and shall be downcast onto the worksite to prevent lighting and glare impacts on off-Reservation areas and sensitive receptors/ecological resources.” The revised EIR should expand on these mitigation measures and ascertain just how much light pollution would result during construction and its impacts.

O3-11

San Diego has a dark skies ordinance and a revised EIR should specify if the Project would be in compliance with this ordinance.

O3-12

Visual Aesthetics

The TEIR admits that the Project would have significant and unavoidable impacts. The TEIR states that “the maximum elevation of the proposed hotel tower would exceed the elevation of nearby hillsides, and as a result would be a more prominent and dominating visual feature that would influence the viewer experience of the natural landscape.” Moreover, it states that “No feasible mitigation is available.” A high-rise hotel in rural east county is wildly incompatible with the community character and visual aesthetics of the region.

As the TEIR states: “Construction of the Project would temporarily alter views of the project site from off-Reservation locations. Heavy machinery and construction activities would be visible from off-Reservation locations and to passing motorists on SR 94 and Melody Road.” Additionally, it states, “On the portion of Melody Road east of SR 94, westbound commuters would experience a view of the upper levels of the proposed facilities to the southwest, which would emerge from behind foreground topography into a more complete view as the viewer progresses westward.” Views from residential areas along Melody Road would be permanently altered.

O3-13

Water Pollution

The TEIR is unclear and seemingly contradictory regarding the discharge of polluted water into the surrounding watersheds. At one point it states that excess sewage would be discharged into Willow Creek in accord with a National Pollution Discharge Elimination System permit. The TEIR states: “the amount of treated effluent that would be discharged to Willow Creek is estimated to range from 14,699 to 46,379 gpd, with the higher discharge rates in the winter months and lower discharge rates in the summer months.” The TEIR needs to specify the impact of these

O3-14

tens of thousands of gallon discharges on the ecology of the creek and the Rancho Jamul Ecological Reserve.

Additionally, the TEIR states that there will be a “direct discharge of up to 68,000 gallons per day of tertiary treated wastewater to either an outfall to Willow Creek or sub-surface infiltration basins within the Reservation.” A revised EIR should be more specific as to where excess effluent will be discharged.

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cont.

Traffic

Traffic is already dreadful on highway 94; it has the lowest traffic rating, an F. The addition of a hotel and concert venue will make this situation worse.

The TEIR does not seem to recognize that the new guidelines for State of California were provided by SB 743 that replaced traditional traffic analyses with a Transportation Study Guide that analyzes Vehicle Miles Travelled. The revised EIR should provide a transportation analysis consistent with SB 743.

EIR claims that no traffic study is needed, and no mitigation is required for off reservation travel. Certainly adding 225 hotel rooms and a concert venue that hold more than a thousand people will increase vehicle trips and vehicle miles travelled. A traffic study is needed in the revised EIR to ascertain the additional impacts on an already impacted, F-rated highway.

O3-15

The estimations of Project-related increases in traffic (Table 3-21), visitation to the Casino, hotel, and event center facilities is estimated to increase by approximately 12% when compared to existing conditions according the TEIR. Likewise, the cumulative impacts of nearby housing developments at Otay Villages 13 and 14 need to be ascertained. A revised EIR should ascertain the substantial effects of traffic on highway 94 which is already F rated.

Greenhouse Gas (GHG)

Both California and the County of San Diego are making substantial efforts to curb GHG emissions, a major factor in climate change. This project would significantly increase GHG emissions.

First, the project would increase the burning of propane as a primary fuel source. The TEIR states, “The Project would also result in the addition of three high efficiency propane fired boilers, each with a rated capacity of 2,000 thousand BTU per hour (MBH) (6,000 MBH total).” The TEIR also states that it would employ “propane for cooking facilities.” Propane burning is a potent greenhouse gas and a revised EIR should do an analysis of the GHG emitted by additional burning of propane versus the reduced emissions of an all-electric project. Moreover, the EIR should propose feasible mitigation to compensate for the GHG emissions.

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Additionally, the revised EIR should analyze the amount of additional GHG produced by hundreds of cars driving round trip to the new hotel, the over one hundred additional

O3-17

employees working at the facilities, and the potentially thousands of visitors travelling by car to the concert venue.

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cont.

The TEIR does state that: “As shown in Table 3-7, operation of the Project would generate approximately 3,906 MTCO_{2e} annually, which exceeds these commonly referenced quantitative thresholds.”

Likewise, a revised EIR needs to analyze the impact of trips by hundreds of workers during the construction phase of the project. The TEIR states that, “There would be an estimated average of 220 construction workers per day with a peak average of 330 workers per day during a six-month span in the middle of the project between approximately September of 2023 and February of 2024.”

The TEIR does try to mitigate some construction GHG. It states: “Mitigation Measure 3.3-1: The Tribe shall stipulate in the construction contract for the hotel and event center that 10% of construction equipment used during construction activities use alternative fuels such as renewable diesel, renewable natural gas, compressed natural gas or electricity.” Unfortunately, diesel fuel, regardless of its mixture, as well as natural gas, both emit prodigious amounts of GHG and will still have impacts. Worse, even if these fuels emitted no GHG emissions, 10% renewable energy is a token amount; meaning 90% of construction equipment will emit dangerous air pollution and GHG. The revised EIR should include plans for a better construction plan that emits far fewer GHG emissions.

O3-18

The TEIR does recognize the need to mitigate GHG emissions and introduced two other measures. “Mitigation Measure 3.3-2: The Tribe shall implement a Transportation Demand Management (TDM) program to achieve a 15% reduction in commute vehicle miles traveled and commit to monitoring and reporting results to demonstrate compliance. Mitigation Measure 3.3-3: The Tribe shall use electric boilers and appliances in lieu of propane units to ‘the greatest extent practicable,’ which is not a measure performance standard under CEQA. These may be potentially good efforts that need to be described in more detail in the subsequent EIR including performance metrics.

O3-19

Conclusion

Sierra Club San Diego favors the “No Project Alternative,” whereby the project site would remain as it currently is, with no further improvements to the site or its surroundings. This alternative would eliminate the construction and operational off-Reservation environmental impacts of the Project, including impacts associated with scenic vistas, lighting, air quality, and greenhouse gas emissions, noise, traffic, biological resources, and water resources.

O3-20

A Final Note

Throughout the EIR the Jamul Indian Village is referred to as a reservation, but it is not a reservation.

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It has been asserted that the Jamul Indian Village is a reservation, but no person, group, or government agency can produce a document that it is a legitimate, legal reservation under United States law, under the Indian Reorganization Act or the Indian Gaming Regulatory Act. This is unlike many other reservations that legitimately constitute sovereign land and are fully entitled to casino construction and operation. Such is not the case for the Jamul Indian Village. It is our belief, therefore, that the Jamul Indian Village is subject to the regulations and laws of the County of San Diego and the State of California.

Sincerely,

Dr. Peter Andersen,
Vice chairperson, Conservation Committee
Sierra Club San Diego

Dr. Ron Askeland,
Chairperson, Conservation Committee
Sierra Club San Diego

O3-21
cont.

Jamu Du zur Community P nnin Group

.O. Box 613, Jamu , CA 91935

November 14, 2022

Jamul Indian Village of California
Attn: Chairwoman, Erica M. Pinto
PO Box 612
Jamul CA 91935

Subject: Comments Re: Draft Tribal Environmental Impact Report (TEIR) for the Jamul Casino Hotel and Event Center Project

Dear Chairwoman Pinto,

INTRODUCTION

We have reviewed the TEIR and our recommendation is for the No Project Alternative. This TEIR is extraordinarily incomplete and premature for a project of this magnitude with immense long-term ramifications and consequences for our community and region.

O4-1

In May 2016, the JIV entered into an agreement with the Board of Supervisors of San Diego County and signed a Memorandum of Understanding (MOU), the basis for the Intergovernmental Agreement (IGA). In that agreement, the JIV made significant commitments for highway improvements that have never been started.

O4-2

We believe that these should be completed before any new project expansion of the existing casino is even considered.

The traffic analysis remains the most deeply flawed section of the TEIR. In every instance, conclusions and predications are made favorable to the JIV. Through a string of evidence from old outdated Traffic Impact Studies (TIS), assumptions built on previous wrong predictions, generously applying statistics from northern California casinos with different geographies, using peak volumes or averages without total volumes, studying the impact of minor events in the current context of the Jamul Casino which diminish vehicle trip potential and an absurd argument to invalidate the use of Vehicle Miles Travelled (VMT), all lead to a mind-boggling conclusion without credibility.

O4-3

We believe that in order to achieve a common sense, realistic and factually sound traffic mitigation proposal, an independent traffic analysis and impact study need to be done.

County Planner, Scott Christman, states that this does not need the approval of the BOS or the Governor of California. Approvals for this casino were made on certain conditions, expectations and formal legal agreements, which have not been completed. The argument that this is not “gaming related” excuses you from conforming to Local and State laws defies legal precedent because these additions support and enhance the gaming business model.

O4-4

We believe that in order for the JIV to do anything significant in an expansion beyond the envelope of the structure and scope of existing casino, it does absolutely need the

APPROVAL/COOPERATION/PARTICIPATION in the negotiating process as called for in the MOU/IGA with San Diego County and the State Compacts with the Governor.

O4-4
cont.

Confidence was built around a casino project originally presented and sold to the public and our elected representatives that would “seamlessly blend into the natural landscape”. Considering the enormous value of the conservation land areas that surround the Jamul Casino, and the decades long efforts of local, State and Federal agencies and numerous private organizations, “conservation communities” to protect, preserve to enhance their growth and prosperity, this expansion proposal willingly and knowingly undermines all these goals. You have stated that there is no way to mitigate the aesthetics or the environmental impacts.

O4-5

We believe that there is a way to mitigate this environmental harm and that is not to do this project. No Project Alternative.

The problems of methodology and tactics for cloaking unfavorable results are fairly consistent in theme in this Report.

- Field studies are designed to produce results that show minimal impacts by narrowly focusing on smaller geographical areas near the casino land.
- Descriptions of residential communities downgrade their value and quality;
- The wider perspective of the relationship of the Jamul Casino to the topography of the Jamul Valley is cloaked into irrelevance.
- The obvious grand presence of the Rancho Jamul Ecological Reserve and the Hollenbeck Canyon Wildlife Area fade into oblivion with only scant mention near the end of the Report.

O4-6

We believe the very narrow, inwardly focused perspective that permeates this report makes it impossible to understand and evaluate this project in the broader context.

PLEASE NOTE: Comments from the Public Meeting held in Jamul on November 3, 2022 are dispersed throughout this document.

AESTHETICS AND ENVIRONMENT

The TEIR states that the aesthetics cannot be mitigated. By its sheer size, this hotel with a height of 225 feet, 255 rooms, and 16 stories, with floor to ceiling glass will function as a huge vertical sign in a near wilderness setting. This will inalterably change the landscape and be a blight on the horizon. While appropriate for Las Vegas, this is an absolute failure for the environment in a highly conserved area, literally on the edge of the renowned and highly prized RJER, Rancho Jamul Ecological Reserve.

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The problems we are seeing in this Report are consistent in theme. The practice is to underestimate the impacts with studies that were performed to get results favorable to the project. For example, in the “Environmental Noise Assessment” the field studies on Acoustics narrowly focused on areas close to the casino and at ground level. The idea that by measuring sound at the closest residences to the casino would produce an accurate picture of how sound travels across all areas of the valley is absurd. Some of the areas furthest away up on the opposite hillside could be more disturbed by nighttime music and celebration.

O4-8

For instance, how will the moveable walls open and close for entertainment events in the 25,000 SF event Center to prevent music and sound from over-spilling into the Valley. If there is a hotel, how do you screen the light from floor to ceiling windows from becoming a giant SIGN in the

O4-9

sky which is a typical Las Vegas style presentation. This is a huge change of land use for us. The Report freely admits that there is no mitigation for the change or degradation in aesthetics and its impact on the environment. The mitigation is NOT to BUILD IT.

In defining view corridors, again the field studies took a very narrow view point of view for local roads like Melody Road from the ground. This report misses almost entirely the full breadth of the sweeping landscape of the topographical nature of the Jamul Valley and the higher basin on the east. In the upper bowl area at the top of the valley we have an archipelago of communities that have views for miles down the valley, some reaching to the border on Otay Mountain and some to the Pacific Ocean.

In the Report local residences are characterized as “scattered housing” and falsely state “no residence or roads occur within view south of the project.” And that there is “no adverse impact to residential properties, except for the alteration of views”. A full and realistic study that includes these rural housing enclaves to the west, east and south were never shown in pictures or mentioned as being a part of the valley that will be impacted by the change in the environment by light and noise and the sheer presences of the casino build out.

Resident, Jamul Highlands “I live right behind the school on the hill right here. I can see the casino from my living room. It was a surprise when it came up. It lights up every night like a beacon. So some of my concerns are light pollution. We can also hear the noise from the events. That place is far away, but all of you know that this area is extremely quiet and you can hear your neighbors talk outside. So hearing the casino all the way where we are back here, the bass you can hear it until 11:00 so the biggest concern here is two nights a week from seven to eleven.”

Resident, Rancho Jamul Estate” ... we get a horrible noise impact at sometimes we can hear the lyrics, these specific lyrics of music coming from the casino at its current entertainment venue. I'm down pretty low, about 0.7 miles from the casino. I see everything you're seeing. I experience the traffic. We're hearing the noise again to the point where we can sing along with them and do the karaoke thing. We're seeing the purple and blue disco ball. Has anybody seen that? I've tried to call the sheriffs and it's very hard to get through to them.”

In discussing mitigation measures to reduce nighttime light and glare, no real solutions are given. An obligatory statement to make “every effort to use screens or shields” to reduce impacts is not real science. Ryan Sawyer, Acorn Environmental, stated that they had not yet worked out a way screen light from the 225 hotel rooms with floor to ceiling glass. She also said they had not yet worked out the details of the construction and mechanics for the sliding exterior walls of the new event center. Typically, a developer is not allowed to work out issues like these years after completing the project.

This Report fails to include the Rancho Jamul Ecological Reserve (RJER) and the Hollenbeck Canyon Wildlife Area, also managed by the Wildlife Conservation Board (WCB) of California, in the discussing environmental impacts. These 2 highly prized conserved lands are tucked away in the end of the Report. Once this and future projects come into existence the impacts will be a steady erosion of the isolation that the conserved lands rely on to thrive and flourish. Descriptions like “undeveloped lands surround the project site” cloak the significance and

O4-9
cont.

O4-10

O4-11

purpose of the surrounding landscape implying that it is been left vacant, unattended and would benefit from future development.

By repeatedly describing lands in the valley as overtaken by “non-native grasses”, the Report implies they have been degraded by neglect and does not acknowledge the conservation efforts of the RJER to restore “native grasses” in the valley and region.

O4-11
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TRAFFIC

The falsities, distortions, deceptions, and skewing that permeates this Report may go unnoticed by someone reading it in an office in Washington or Sacramento who had no direct experience driving on SR-94 for 10 or 20 years. Section 3.11 describes SR-94.

“As it proceeds to the east, it narrows to a four-lane facility and then, in the vicinity of the project site, to a two-lane that is undivided. It appears as a conventional highway that is also known as Campo Road.”

To use the phrase “in the vicinity of the project” one expects that transition to a 2-lane road to be a lot less than 6 miles away and not to mention a complete transition from a relatively straight urban valley topography to an upward climbing 2 lane rural highway winding up through a canyon where line of sight distances are limited by the turns. The transition is dramatic. This is the most vital link for daily life and for emergency evacuation that residents of Jamul depend on. Even a minor incident can severely impact this 6-mile leg of SR-94. Over the last 2 years traffic frequently is bumper to bumper along this stretch of road particularly during am and pm rush hours. Bumper to bumper traffic on a rural LOS F rated, 2-way road leaves residents with no alternative through- way. This is not only inconvenient but dangerous.

O4-12

For this one section of highway, Caltrans required a series of road improvements including 2 right turn lane widening improvements from Jamacha Blvd onto SR-94 and widening of the intersection at Steele Canyon with upgraded signalization. 5 of 6 required improvements have not been accomplished or mitigated. The JIV leadership cannot independently dismiss agreed-to requirements that allowed it to build the casino in the first place. This should be done before any future expansion is considered. Most of SR-94 is rated at a LOS of F.

- SR-94 and Maxfield Road roadway improvements.
- SR-94 and Steele Canyon Road Intersection widening Improvements.
- SR-94/Campo Rd and Jamacha Road dual right-turn and other improvements.
- SR-94/Campo Rd and Jamacha Boulevard dual right-turn improvements.
- The Melody Road and SR-94 intersection improvement project.

Stating that the requirement under CEQA to mitigate for VMT does not apply to this project because it is not in the Compact is irrelevant. It is a new law that applies to new projects that reside in areas of the Unincorporated County in their jurisdiction. And the rationale that on a comparison basis this casino is the closet and therefore patrons drive fewer miles to get here than to other casinos exempts them VMT regulation is very faulty logic. Caltrans has asked the TEIR to identify VMT related impacts in their Response to the NOP.

O4-13

Tables and statistics can be convoluted when combined with and built on interpretations of previous assumption, previous studies that made wrong predictions. While they might be able to be justified as individual parts, CEQA intends to gain a wide view of the totality of the studies. When circulation routes frequently become jammed up, statistic can tell us a certain number of vehicles passed a certain point for the day, am or pm, but it does not give us the quality or characteristics of the vehicular movement. If statistics included observations, the SD County Fire Authority “Risk Assessment” Unit might deem that SR-94 was frequently exceeding its “volume capacity” when as they say, “Bad things start to happen”. A new independent traffic analysis needs to be done. This TEIR is referencing as authoritative a patch work of previous studies at different times with insular points of view. It is very questionable work to reference data from an old project like Village 14 that today no longer exists and may never be built. There has to be an alignment to reality.

There are contradictions and inconsistencies found when comparing traffic data from Caltrans 2019 to the counts included in Table 3-20 of the TEIR which illustrates current casino trip comparisons (as compared to 2013 projections) that reveal a 10% increase in weekend traffic, 20% increase in traffic on Fridays and 45% increase in traffic on Saturdays. The highest volume of daily trips reflected in this chart reveal an estimated 13,039 daily trips. These counts are contradicted by the data reflected in the 2019 traffic counts provided by Caltrans, which show peak traffic at Lyons Valley Road is an estimated 19,700.

Page 3-103 of the TEIR states that “the project would result in significant impact if it would: Cause an increase in off-Reservation traffic, which is substantial to the existing traffic load and capacity of the street system (i.e., result in substantial increase in either the number of vehicle trips, the volume-to-capacity ratio on road, or congestion at intersections).”

According to the TEIR findings, a theory is being presented that the significant impacts would only occur if “the existing daily trips are higher than those projected in the Approved TIS” and based on the data collected by Kimley-Horn the Report does not foresee this impact occurring. We contend that there is a fundamental flaw in this logic not only due to the discrepancy in the traffic counts illustrated above, but more importantly in the logic the project team used to assess the impact of traffic resulting from the Bingo Hall and Event Center expansion.

Table 3-20 of the TIER reveals that a traffic study was conducted during what would be peak hours and on a night where the Casino had “live entertainment (e.g., band and/or disc jockey). We would like to understand how the project team reasonably suggests that comparing the existing entertainment area in the Casino on a night when an unknown band/DJ played to an expansion of over 25,000 square feet with seating capacity approaching 2000 patrons (between the Bingo hall and event center) is a fair comparison. This is incredibly misleading and clearly is not taking the traffic congestion or safety of the Jamul community into account.

As stated above, the special events that could be held as a result of this expansion will inevitably create an extraordinary crush of traffic over a short time period. This has not been evaluated and most certainly will cause an “increase in off-Reservation traffic, which is substantial to the existing traffic load and capacity of the street system (i.e., result in substantial increase in either the number of vehicle trips, the volume-to-capacity ratio on road, or congestion at intersections).” How does the Project team plan to mitigate this impact under normal circumstances let alone during an emergency situation when competing confluences of traffic

O4-14

flows collide with each other as they enter SR-94 heading in different directions? Lives will be placed at risk.

Assumptions of “No Extra Traffic”. This is a strange assumption to make when at the same time an additional 6 story parking garage south of the hotel is proposed. Using the lower prediction as new base line to project future traffic volumes is simply self-serving to lower mitigation needs. This project expansion design has the potential for substantial growth which could cause an increase in traffic volumes. Existing traffic already frequently pushes this highway well past its capacity limits to crushing gridlock. Residents of Jamul currently spend up to twice the amount of time getting in and out of the community due to the increased traffic resulting from the Casino being built. The Jamul community saw an increase of 17% of trips from the 2016 Caltrans traffic study to that conducted in 2019. The JIV has done the bare minimum to improve SR-94 and mitigate the impacts to traffic and failed in building the many road improvement projects agreed to in the MOU. Before any new expansion efforts are proposed, it is critical that a proper traffic study be conducted assessing the impact of a crush on traffic during peak hours and events being held at the Casino.

Assuming 7 SF/person for “Assembly Areas”, (concentrated use without fixed seats) under the UBC of California, the 25,000 SF event center could allow up to an additional 3,571 occupants. Assuming 11 SF/person for the “Gaming Area”, (non-Class III Gaming) under the UBC of California, the 10,000 SF Bingo Hall could allow up to an additional 909 occupants. Adding these together would give an increase potential maximum occupancy of 4,480 people. Adding this to the already 5,500 capacity allowance for the current gaming floor and we now have an allowable occupancy of (9,980) for the Jamul Casino. The current garage only allows for 1,800 cars. The new garage will increase it by 255 for a total capacity of (2,055) vehicles. This does not include estimates for the maximum occupancy of the hotel.

O4-14
cont.

The completion of Caltrans Traffic Projects that were promised to provide better service and safety to the drivers on SR-94 need to be completed before starting a new expansion project. Otay Lakes Intersection: Is there 1.5 million on deposit for the future roundabout? What contribution will be made for this build-out to complete the 25 million dollar estimate for this improvement. The Intersection of Otay Lakes Rd and SR-94 needs to be improved according to the Caltrans plan or a roundabout prior to this Project moving forward.

Resident, Jamul Highlands *“I mean, I have to look at the casino website to see when their specific events are so that I can figure out which way to go out. So I'm not stuck on the 94 behind all of the people coming and going. And there are days when I take humble drive because I know that I'm going to be spending half an hour on the 94 trying to get to my house.”*

WILDLAND FIRE AND EVACUATION

In Appendix F, “Casino Fire and Emergency Plan”, this TEIR resubmitted the prior plan of 2016 for the Hollywood Casino. This TEIR is an “incomplete draft”, assembled in a piecemeal, fractional way. By doing this, the Report divulges nothing about the plan or the size and occupancy of the new buildings. This makes it hard to do our own calculations and forecasting traffic and its impacts. And this brings up a really big point about the flaw in this whole process. If the TEIR is worth anything then it has to be revealing true information based on an actual plan with real numbers and solutions to problems worked out beforehand.

O4-15

Most glaringly missing is a WEEP, Wildland Emergency Evacuation Plan. This is required under CEQA. The Jamul Casino is in a VHFHSZ, Very High Fire Hazard Severity Zone. Archipelagos of communities disperse into the hills throughout the Jamul Dulzura region and residents rely entirely on SR-94 as a necessity for daily needs and for an escape route is in a wildland fire emergency. Theories that casino patrons will “shelter in place” belies common sense and imagination. If a fire were roaring through the valley, patrons will most certainly be immediately concerned with their homes and their families and want to rush home as soon as possible. This situation could easily induce all-out panic.

Past fires have burned through Otay Lakes to the Wildland Urban Interface (WUI), at the edge of East Lake’s planned communities. The theory that the casino will “evacuate early” is also problematic. What constitutes early? For residents, they are either under a warning or evacuation mandate. In either case, departing patrons will interact on SR-94 with evacuating Jamul residents. Which percentage of visitors are going south or north. Which direction is the fire coming from? There is no acknowledgement and study evaluating the interaction of evacuating casino patrons with that of the residents of Jamul. CEQA requires that this be analyzed.

An analysis of Wildland Fire Evacuation requires an expert comprehensive study with realistic current statics on traffic volume uses and an updated evaluation of the “capacity limits” for SR-94. As CAL FIRE Chief Mecham has stated in our group meetings, “Risk Assessment” needs to be able to determine the “capacity” of a road or highway. This study cannot be built on the guess work of the traffic and transportation study.

Residents driving on SR-94 experience the common danger of traffic gridlock and “fire entrapment” from “brush fires” on the side of the highway on a weekly basis in the summer season.

In hot dry weather conditions idling cars along road sides are one of the leading causes of wildland fires due to ignition sparks. There is also great risk from cigarette butts being tossed from cars to the roadside. This was the suspected cause of the Viejas wildfire in 2003 that started on the edge of the Viejas reservation. When brush fires occur, traffic comes to a standstill and backs up for miles frequently past Steele Canyon and all the way to Jamacha Road.

There needs to be a plan for mitigating the roadside hazards from increased frequency of vehicles stalled out in bumper to bumper traffic. The Lilac Hills Ranch housing development project for 1,700 homes was rejected because the roads used for evacuation could not be made safe from fire entrapment for fleeing residents. A casino entertainment facility is a large commercial development that should be held to the same standards and requirements in a remote rural setting.

CUMULATIVE EFFECTS of CRIME

There exists a hidden baseline of human factor accumulative effects that cannot be ignored. The JDCPG Subcommittee held a public meeting on November 3 at 6-8pm to gather insight from the community and learn what impacts they have been experiencing for the time period the casino has been up and running. We submit them to the TEIR as part of the Cumulative analysis to help us predict future social impacts as the casino continues to propose new expansion projects.

O4-15
cont.

O4-16

There is a dark side to the gaming industry that spreads from the physical grounds of the facility. Crime and vagrancy, an itinerant homeless roving crowd with alcohol and drug addiction problems can become literally a dragnet of multi-problems spreading into communities on route to the casinos and in the vicinity of the casino itself in search of some quick wins and easy money. The following speakers recount their personal observations and interactions with the changing social elements in Jamul.

Resident, Lawson Valley *“My concern is that the increase in the drug use, the drug paraphernalia, things that are happening in cars that are parked along the side of the road, that are parked in people's driveways you've all heard the stories we're starting to see because of the type of folks that are being attracted to that particular area of Jamul. My concern is that we're going to start seeing that in Lawson Valley, lee Valley, and Lyons Valley here pretty soon.”*

Resident Proctor Valley *“Aliens that are being picked up right at the corner of Melody and 94. It happens constantly. You see them hiding over by that drainage ditch amongst the five, 6710 shelters that are being created back there. There are several people living back there. There is several people cooking back there. There are several people starting fires back there. And I am just curious if the fires department's here and law enforcement is here. I have made so many phone calls in regards to the illegal aliens picked up drug deals. I watch them as I'm pulling out of the corner. I can see the guy in the truck. I can see the guy hand something over. I can see the other guy handing him money. People randomly just walking around at 02:00 in the morning, coming into our neighborhoods and checking car doors to see if the car will open so they can steal things. Right off the melody. Calle Mesquite and the Proctor Valley Estates. It's all happening there constantly. And we see just random people trying to open our gates, go in our backyard. We see motorhomes that were there and we had to call. But because they're within the law of 72 hours, they can leave it there for 72 hours.”*

O4-16
cont.

These are problems that must be mitigated with a commitment of dollars for law enforcement to protect the security and health of neighboring residents. When crime in the vicinity of the Casino on the 10 acre parcel north of Melody Rd. was addressed during a JDCPG Subcommittee meeting on Oct 11th 2022, Craig Benedetto, California Strategies for the JIV, replied that the property in question did not belong to the JIV but to Penn National Gaming, the developer in partnership with the JIV and “It is not our problem”. We think that it is and should formally be made a mitigation issue in the next MOU.

In Table 3-18: San Diego Sheriff's Department Calls for Service Logs only covers the time period from July 2021 to June 2022. We need to see the logs for crime going back to the opening of the casino in 2016 to get an accurate basis for comparison

Resident on Terra Seca Drive stated,... *“So you want to get involved. You see crime, call the police. What are your property taxes going for? You see people in your neighborhood that shouldn't be there. The cops don't come, maybe you'll confront them yourself.”*

Residents should not have to form their own neighborhood patrols and plan for vigilante tactics to protect themselves when they know very well the cause of this. The Jamul Casino is a thriving business and can well afford to commit resources to law enforcement to mitigate the deteriorating social environment.

IN CONCLUSION

In the concluding remarks the TEIR states that,

“The Project does not represent a “precedent-setting action” such as changing an existing land use or requiring amendment of land use plans. The Project would not induce unanticipated growth beyond that identified in the San Diego County General Plan. The Project would result in a less-than-significant growth-inducing impact.”

The Report claims it will not be “growth inducing”, which is an expressed goal of our Sub-Regional Plan. Perhaps not to anyone else but it is “growth inducing” unto itself. This is another incremental step of the expansion of the resort entertainment complex. Our fear is that future steps of “land to Trust ” applications for expansion which will continue to multiply the adverse effect on the area and region. While seemingly harmless, the variable of adding hotels expands the potential clientele to utilize international cross border waystations. Entertainment for private events bring their own fallout of impacts by the sheer volume of heavy equipment that needs to be hauled over long distances in trucks. The variety of crews with technical expertise in sound, lighting and stagecraft and media form an extra burden of unpredictable numbers of cars and trucks required for these showroom spectacles.

This expansion is a huge jump into the realm of a Las Vegas style casino with a 16-story hotel that functions as huge sign that will dominate the landscape. This vision is in extreme conflict with the long-term conservation land goals of our Sub-Regional Plan and General Plan. Even with a very slanted presentation of the facts, it would be an impossible stretch to say as you have done, “The project would be largely consistent with the County land use plans, policies and regulations.” This distortion in interpreting facts is common in the Report. We see an exaggerated interpretation of the goals for growth for our sub-area plan that helps justify the idea of continued expansion of the casino business. This long-term vision does not synch up with the realities of the conservation and rural preservation goals and the very limited residential and commercial growth clearly defined in our sub regional and general plan.

We will be asking our elected officials to put the brakes on this. This second phase of the casino build out has to be reviewed from the bottom up. The question is, “not that it can be built, but should it be built.” The claim of “sovereign immunity” is used as a foil to evade CEQA, responsibility and the laws of our state. This cannot stand. We will ask our elected officials at every level of government to apply the laws that govern a project like this. And the judgement of the County and State through all relevant agencies must weigh in whether this project should actually happen.

We want to make it clear that construction should not start prior to a complete review and assessment of the viability of the proposal of a massive expansion of what seems destined to become an entertainment gaming conglomerate in the middle of one of the most conserved biologically diverse regions in the continental United States.

SPECIAL NOTE: Concerning Timely Notification: Our Planning Group was never notified of the NOP release back in May 22 of 2022. And we received notification of the release of the TEIR from the County on October 6, 2022, 6 days after the it was submitted to the (SCH).

PLEASE NOTE: Appendix of Public Comment follows. On request we will make available the complete transcript from the Public Meeting in Jamul on November 3, 2022. The meeting was recorded and transcribed.

O4-17

O4-18

Respectfully,

Preston Brown, *Chair*
Jamul Dulzura Community Planning Group

APPENDIX: PUBLIC MEETING COMMENTS

Resident Peter Anderson, Sierra Club San Diego “*Sierra Club is opposed to this. Sierra Club is committed to keeping east county rural. Pristine livable place that caused us to move here in the first place. There’s a number of other problems. CA has some of the strictest greenhouse gas rules. CA is trying to lead the nation in preventing climate change. One of the things we’re trying to prevent is excessive car trips. So these new development produce a lot of vehicle miles traveled [VMTs]. There’s a new bill, SB 743, that restricts new developments because of VMTs. Nowhere in there (TEIR) is a correct assessment of the number of new trips. They are going to produce air pollution and excess greenhouse gases in violation of local and state ordinances.*”

“The casino is located in Jamul Ecological Reserve-bordered on two sides. Home to lots of endangered spices that have little to no habitat left and are protected in the state of CA. They will need to install 120 foundational nails into the actual Reserve need to be applied because the plot is too small to support a hotel. They did it the first time without telling anyone. Now it’s in the EIR. That is an actual physical violation of Jamul Ecological reserve. It’s not the only one.”

Resident Dianne Jacob, Deerhorn Valley “*I want to go on record supporting the NO PROJECT alternative. Building a hi-rise 16-story hotel in this rural community is not just a slap in the face to this community... it’s a knock-out punch. I say that, not lightly... It doesn’t fit in the community. It never will fit into the community. It is a bad project in a lot of ways.*

“Both state and county governments have passed laws and policies supporting implementation of VMTs in looking at new developments. One thing I would like to see The Planning Group ask for “are state and local governments going to weigh in on this particular project?” They certainly should because it appears to me that there is a conflict between what the state and county government is saying to everybody else about new development and what the JIV are saying in their environmental document that they want to do here. It’s a contradiction.”

State Route 94 “has a level of service “F” ... only makes sense any additional traffic, particularly on 94, without a doubt, will severely increase collisions and loss of life on an already extremely congested and dangerous highway. It is one of the most dangerous highways in all of San Diego County!”

Resident, Jamul “*I’m 1/16 Native American. This is not fair to us as a community. They don’t care about what they’re doing here. They think they have the right to do whatever they want since the Federal government gave them the fee to trust transfer.*”

Resident Marcia Spurgeon, Honey Springs “*Let’s put the brakes on until we know the real impacts are.*”

Resident Jamul “*I want to go on record and say what my concerns are: Fire safety, Negative impact to environment, who is Who’s making sure it’s up to code? Who’s making sure it’s safe?”*

Resident Jamul *“What kind of events? Probably music? This will impact traffic drastically because of specific start times for events.”*

Resident Jamul *“In 2016, they promised it [the Casino] would blend in and they would control light pollution. It does anything but. It lights up the entire valley. It sticks out like a sore thumb. I can't imagine what the 16-story hotel will disperse!”*

Resident Lawson Valley *“Their plan is to shelter in place, right? To have their guests shelter in place, and then if not, then evacuate early. I'm not sure what they expect to happen, but when they see the smoke and the flames coming over the ridge. A lot of those people aren't from Jamul. They're not from the area. They're not like dad. That's a good 7 miles away. I got a good 15 minutes to finish up what I'm doing. No, they're going to panic. They're going to jump in their cars and they're going to get out onto 94 with the rest of us all trying to evacuate. Exactly, and that's another great point. And they're probably not sober. So these are the concerns that I have as a resident of Jamul, specifically of Lawson Valley, which is a box canyon. There's only one way in, there's only one way out, and that's Lawson Valley Road. And then it dumps you off eventually onto the 94 along with everybody else and the casino.”*

“So if you're like me and you're concerned and you want to voice your opinion, then we need to make our comments, get them recorded here, include them in the letter. But you're also free to go to the public comment section of the TEIR. We can provide that website if you haven't seen it yet. I know I've been posting on the Lawson Valley Jamul Facebook page, and I think it's been posted in Deerhorn Valley and Jamul, you can click that link and there's a place that you can go to actually lodge your comments. So it's very important that the community speaks up about this now.”

Resident Jamul Highlands *“So one of the assumptions in here is that because the casino is the closest one to San Diego, people are going to opt to stay overnight. And I'm like, where do you get that assumption? I'm so close, I'm going to go home and sleep in my own bed. Why should I pay to stay at a hotel when my bed is so close? So I don't know where that assumption came from, but it seems pretty erroneous assumption to me.”*

Resident Jamul (Retired US Customs Service) *“And I have a perspective of the relationship of the Jamul area to the port of entry of Tecate. Don't think that the port of entry, because of small, isn't a major conduit for drugs” coming across the border. And the hotel here is going to provide a very, very convenient location for the drug smugglers, the cartel people, to come over here to meet the people from the north to pick up the loads of narcotics and take it in with. I worked several smuggling cases in Tecate involving bribery of customs officers. Because it's a smaller port, it's more vulnerable to those kinds of activities and there's less traffic and it takes less time to get your load cars through the port of entry. The other thing that was mentioned is prostitution. At least it'll go from outside in the cars into a hotel room. But that brings all kinds of problems of crime. So I just wanted to express my concern about that becoming a place for smugglers to conduct their business and to exchange their narcotics from one vehicle to another or pick up.”*

“What they do is they all come down and pick up that vehicle and take it inland. That was my concern about the short storage facility here. This giant storage facility is being used by smugglers to park a load, give the key to somebody else, and they pick up. They love it. So that's what we're facing right there, right by the anybody have any questions?”

Resident Proctor Valley Estates *“And there's tricks being done. Women in the motorhome, men driving up, or whomever driving up, getting out of their cars, going into the motorhome, and*

then the motorhome, after they get a warning, they move the motorhome around the corner so it sits there. Then the motorhome has been seen in Rancho San Diego, the motorhome has been seen in La Mesa. It's going on all over the place. But it's just sad and unfortunate that such a beautiful community like this, this casino, has brought a lot of this activity going on."

Resident Proctor Valley Estates *"So the first thing was to join the meeting two weeks ago where this tie r was presented and it was really the tribe representatives presenting what their plan was and how again it would blend seamlessly and it would be no problem and this sort of thing. On that call I asked a lot of questions about traffic and crime and protection of sort of the neighborhoods and what they're doing to collaborate with the community and do more if it's going to happen, to really partner with us and have a conversation. And I've gone through the 500 page document as best I can to really understand it because I live within three blocks of that casino and we have seen firsthand to the impacts. I'll get to the TEIR in a second. But just personally, what we've seen is increased crime. We've had petty theft, we've had home invasion attempts in our neighborhood. We have drug paraphernalia that we see as we're walking around. We observe drug deals right on Melody, there's a homeless encampment right on Melody, they've lit a fire. We've had our gardeners have had their cars stolen. There're rumors of prostitution. I've personally not seen that. But I have personally witnessed a crime increase in our community. And we've put a gate around our home now in a fence, trying to protect it. And no longer is it a community where I would let my grandkids go and ride their bike without me being there. Even during the day. Some of this crime has occurred during the day and on any given weekend you'll see transient, tight people walking through our neighborhood. And it's pretty apparent to me that they're gambling and then they're coming over and then kind of bleeding in and breaking into mailboxes. That's a common occurrence weekly. And so none of this was happening before the casino was built."*

Resident Honey Springs *"One of the things we've talked about and I've met this in the community and it upsets me, but they say, why bother? Why do anything? Just let it go. Well, I'll tell you why. If they hear silence on us, this will keep going. And Darla said a long time ago, it'll be parcel by parcel by parcel to this downtown area is gone and it'll be just what we see there now, but all over. So we have a duty to talk to our friends and neighbors and tell them that it is important for you to care, because if you don't, we'll pay the price, every one of us."*

Resident Deerhorn Valley, Dianne Jacob *"I think in fairness to the gentleman that spoke, if I might say, it's not going to be helpful talking among ourselves. And we need evidence. We need evidence, documentation. So if you see something, document it, time, day, take pictures of it, put it into the record. That is what's going to make a difference. Just talking about it, it's not going to do it. So if you see a crime, for example, I think you said you saw a crime document, time, place, if you can take a picture of it, anything that you see that has the potential of being illegal activity, that's what matters to the decision makers, whether they're state or whatever they are. But we need to reach out. This is a good meeting, it's a good start, but we need more work to do."*

Resident Rancho Jamul Estates *"We've seen a proliferation of abandoned vehicles on the road. It became kind of a joke. At Rancho Jamul Estates, we saw the same truck out there for three weeks, abandoned by the casino. Where was the highway patrol? Call the highway patrol, tell them, remind them when you see homeless people defecating in public or lighting matches and doing things, call the sheriff's department. There are a lot of things that we can still do as a community to keep drawing attention."*

RE: Casino traffic plan

Wed 10/12/2022 6:00 AM

From: Hannah Chasteene

To: Admin@jamulteir.com



Good morning,

I am a resident in the area and have heard about the plans to expand the Jamul Casino. While I understand the desire to grow a business, I do hope that additional adjustments will be made for traffic. Expanding the business without making the previously promise adjustments to the traffic congestion in the area is not acceptable.

Are there any plans to address the road congestion and expand the lanes as promised before this expansion takes place?

Thank you for your time,

Hannah

Sent from my iPhone

Proposed hotel and event venue



Wed 10/12/2022 7:35 PM

From: Doug B

To: "Admin@jamulteir.com"

Good evening. As a resident of Rancho Jamul Estates who has been impacted by your current existing casino I would like to voice my concern about your proposed additions.

Your current facility doesn't generate the amount of traffic people worried it would. But EVERY near miss or terrible driver I have encountered with my family in the car and alone has been generated by people either going to or worse coming from your casino (quite possibly under the influence when leaving). An additional 1500 person venue will make this already dangerous and undersized road unbearable.

I2-1

I have personally seen trespassers in my neighborhood go directly back to your facility. Multiple drunks and druggies from the casino have ended up passed out in their vehicles on our private road after leaving the casino. And I know because I have stopped to speak with them and ask them where they came from.

I2-2

The homeless population who showed up and are living on tribal owned land along the 94 (granted, it is in a trust managed by a Canadian mgmt company who handles casino property) has grown exponentially. Neighbors are fearful of these druggy homeless, mail theft and vandalism have increased, several fires have been started, and they are treating your property like a landfill. It is frankly disgusting.

Lastly, and speaking of garbage, why do I see Sycuan Casino adopt a highway program cleaning up along the 94 yet I have never seen any representative from your organization EVER clean up along your stretch of the road.

I2-3

This is just a small sampling of the negative impact your casino is having on the community, and we are all heartbroken at the money grab coming down the pike as you plan your 16 story hotel and event center is no surprise to anyone. It's just another nail in the coffin for our charming little community.

A community which you have ZERO connection to or involvement with.

One of many disheartened and unhappy Jamul residents.

Doug

Sent from my iPhone

11/4/22, 2:42 PM

JIV Hotel addition

13

JIV Hotel addition

Fri 11/4/2022 12:27 PM

From: PMW

To: "admin@jamulteir.com"



My wife and I have been Jamul residents for 60+ years. We have tolerated many changes in the surrounding area, some we like and some we do not like. One we do not like is traffic. I am concerned about the continued use of rural collector roads with an increased traffic count expected to handle an emergency exit due to fire or other disaster.

Paul Winchester

13544 Jamul Dr.

Jamul Ca 91935

Comments Re: NOC for the Jamul Casino Hotel and Event Center Project



Fri 11/4/2022 10:32 AM

From: KD Tyree

To: Admin@jamulteir.com

Chairwoman Pinto:

Please see my written comments (attached) submitted for the record.

I would appreciate a return confirmation of receipt. Thank you.

Sincerely,

Kathleen Tyree

Jamul, CA

Attachments:

- Tyree_comments 03Nov2022.pdf

November 3, 2022

RE: An appeal for JIV to reconsider the casino expansion project out of their sincere respect for Tribal elders, ancestors, and the JIV generations to come

I have served for over 30 years as a professional archaeologist. Throughout the years I was employed by a range of private consulting firms and numerous federal/governmental agencies all with the nexus of heavy involvement and continuing consultation by tribal elders. I most recently served on a large-scale utility project for a federal agency reviewing any significant impacts posed by the project and as the agency's tribal liaison for the project.

14-1

Prior to my retirement two years ago --I spent many, many hours in consultation with several members of the Jamul Indian Village (JIV) including Jesse Pinto, Tina Meza, and JIVs Tribal Historic Preservation Officer (THPO), Lisa Cumper. Our site visits and conversations always included respectful dialogue. I came to understand the Tribe's perspective on the utility project's viewshed (with specific regard to the sacred landscape) and their deep concern for the potential desecration of human remains by the use of large-scale mechanical tools used for trenching and digging.

Though there are many problematic elements to this casino expansion addressed by others --I will only focus on two: the Project's viewshed to the sacred landscape and the potential desecration of human remains.

I am here to specifically appeal to the Tribal elders. When a Project directly or indirectly affects cultural resources—as you well know—precious resources may be displaced or destroyed. This Project's construction efforts will cause adverse effects to the Tribe's own scenic and sacred landscape. What kind of a landscape or what type of sacred view should future generations come to know? How might Tribal heritage be accurately portrayed and shared with Tribal members when a sunrise or a far-off hill is obscured? JIV's webpage states "...Our ancestors have called the region home since time immemorial"— but one must ask— will it even be recognizable? And what of the ground? The introduction of soil nails at depths up to 45 feet will pulverize any presence of human remains (or cremains). JIV elders have previously shared that cremains (and ceremonially burnt grave goods) were historically scattered in/around sacred grounds and not necessarily within a prescribed cemetery (personal communication, 2018). Disturbance or displacement of the ancestors will cause the loss of connections to past events, people, and JIV culture will be diminished (draftTEIR Sections 4.4.1, 4.42; 4-5). As Andrew Green, Cultural Resources Analyst for the Native American Heritage Commission cautions in a letter to Chairwoman Pinto (May 20, 2022), "...Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence". I would add that the mechanized boring operations with which soil nails are installed generally preclude any true assessment for identifying or isolating human remains (or, in this case, more often, cremains) even with the presence of tribal and archaeological monitors and Inadvertent Discovery protocols in place.

14-2

14-3

From a Tribal cultural perspective it must be acknowledged that continued cumulative impacts to this sacred viewshed and the desecration of ancestral remains will consign these significant Tribal resources to obscurity. References from the draftTEIR are cited below for validation in these matters.

14-4

draftTEIR References (italics below are mine for emphases)

Aesthetics & Lighting (excerpts cited)

- The expansion project is said to *have a Significant and Unavoidable Impact: The Project would have a substantial adverse effect on a scenic vista* 3.2.3, 4.1,4.4.2
- Table ES-1: Summary of Impacts and Mitigation Measures (ES-4): Would the Project have a substantial adverse effect on a scenic vista? *No feasible mitigation is available. (ES-4)*
- The ...proposed hotel tower would exceed the elevation of nearby hillsides, and as a result would be a more prominent and dominating visual feature that would influence the viewer experience of the natural landscape. Thus, the Project would have a *significant impact on a scenic vista that cannot be avoided.*"(ES.5, ES-3)

14-5

Cultural Resources (ES-7) (excerpts cited)

- Would the Project cause a substantial adverse change in the significance of an off-reservation historical or archeological resource? *LS None Required.* Table ES-1,3.5.1
- Below grade soil nails would be used along the southern and northwestern project site perimeters to stabilize the proposed facilities that would extend below the ground surface into the adjacent properties(ES.2;ES-1)
- All activities associated with the placement of the nails would occur within the project site and below the existing grade; however, *the nails themselves would extend into the northeastern area of Church property to the west and CDFW property to the south as shown in Figure 2-5.* (2-12)
- The soil nails would be installed below the ground surface and would extend into the adjacent CDFW property to the south *and the Church property to the west, but not into the cemetery area* (refer to Section 2.3.10 for additional detail).(3-1)
- The Project would result in the relocation and *realignment of utilities that extend through the Reservation to connect to the Church.* The relocated utilities would occur within previously disturbed, paved parking areas and associated engineered fill. (4.5.2 Church Utility Relocation; 4-12, 4-13)
- The JIVDC shall implement inadvertent discovery measures during all construction activities. These measures include but are not limited to worker education, use of a professional archaeologist, and a tribal monitor. Table 2-2; 2-21,-22

14-6

Soil Nails 2.3.10 & 3.1.1 (excerpts cited)

- The JIVDC proposes to use approximately 120 long soil nails to secure below grade walls. These long soil nails would range from approximately 15 to 35 feet in length and would extend up to approximately 30 feet into the adjacent RJER land (measured horizontally). The long soil nails would be installed starting at a depth of approximately 7 feet below grade *to a depth of up to 45 feet below grade depending on the surface elevation and slope* (Figure 2-5 and Figure 2-6). (2-12)
- The following best management practices for cultural resources shall be observed during construction activities, including during construction of the soil nail wall and any *off-Reservation* ground disturbing activities associated with utilities relocation. Table 2-2 (BMPs) 2-21

14-7

Impact Analysis 3.5.3

The Project would result in a significant impact if it would:

- Cause a substantial adverse change in the significance of an off-Reservation historical or archeological resource;
- Disturb any off-Reservation human remains, including *those interred outside of formal cemeteries* (3-40)

14-8

Sincerely submitted,

Kathleen D. Tyree, MA
Register of Professional Archaeologists (retired) #10132
Jamul, CA

Footnote:

The casino expansion draft TEIR is said to encompass land uses *adjacent* to the Reservation which include the “Tribal church” and cemetery to the west (1.2 Project Location and Setting 1-1) *however,*

- the existing modular tribal community center and administration building currently located on the west side of the Reservation will be removed to accommodate the footprint of the new hotel and parking structure. (ES.2; ES-1) 2.3.3 (2-5; also Figure 2-1)
- this 6-level parking structure will house separate storage tanks and pumping equipment for resulting brine, off-specification wastewater, and treated effluent installed below grade, beneath the proposed hotel parking garage. (2-8)
- Soil Nails are said to maintain the integrity of the perimeter of the project components including the proposed parking garage (2-12)

14-9

Comments Re: NOC for the Jamul Casino Hotel and Events Center Project



Tue 11/8/2022 2:26 PM

From: Suhail Alsheikh

To: Admin@jamulteir.com

Hi Chairwomen Erica M. Pinto,

I'm a resident of Racho Jamul Estate that is about 2 miles from Jamul casino. We moved on 9/2018. Over these few years we have seen a growing number of cars that go in and out of the casino. I would roughly say that about 1/3 to 1/2 of the traffic that goes through Campo Rd.(94) heads to the casino. On their certain events traffic jams are a total headache to endure. We have seen cars left in our main entry street as well as cars parking with people inside and we have no way knowing what they are doing there (drugs, prostitution are likely possibility). Musical events are carried there and that has overwhelmed our area with very loud noise and you can clearly hear the lyrics as well.

Having the casino to start with was a very bad area for the community that seeks a peaceful and quiet environment. As such it does impact on the wildlife presence in our community with the noise and light it creates. Having an additional Hotel with 16 stories with 225 rooms, an event center for 1500 people, a bingo hall for ~ 600 people, and 6 story parking garage will be a total disaster for the community and the environment. This project will surely impact negatively on the following matters;

1- **Traffic:** Campo Rd. is a single road each way and such addition will surely make traffic on that road a nightmare for people using it. In addition to the pollution these extra cars will be venting in the air.

2- **Noise pollution:** The casino as such does generate annoying noise on their special run parties that is very disturbing to our quiet community. Having the aim for additions will surely add to the misery of our community.

3- **WildFire:** With more traffic on Campo road, wildfires will be a disaster to encounter and evacuation when that happens will be at the cost of human life for those that will be stranded on that narrow road. As such our area is considered to be the 2nd highest risk area for wildfires.

4- **Crime, Drugs and Prostitution:** No doubt that gambling sites do promote the issues mentioned and having an adjacent hotel will create a safe haven for such activities.

5- **Wildlife preservation:** I'm not sure how the responsible authorities have designated our area to be a harbour for the precious wildlife by allowing the building of such additions that will create enormous amounts of noise and vibration while building and afterwards when it is done with added environmental noise pollution and light.

6- **Property value:** having a casino next to us is a negative element for our property value and having all of the projected additions will surely impact more negatively upon our property values.

Having stated all of these points, I think having the intended project additions is a very bad idea to pursue with all of its negative impact on the community, safety, and environment.

Thank you,

Suhail Alsheikh

Rancho Jamul Estate resident.

15-1

15-2

15-3

15-4

15-5

15-6

15-7

November 9, 2022

To: Chairwoman Erica M. Pinto
From: Dianne Jacob, Jamul Resident

The following are my brief comments on the proposed Casino/Hotel project in regards to the TEIR:

I SUPPORT THE NO PROJECT ALTERNATIVE

Adding a high rise 16 story hotel in this rural community is not just another slap in the face to the Jamul Community. It doesn't even fit in with the looks of the existing casino!

I personally do not object to remodeling the interior of the existing space but strongly object to any additional construction on the property.

I will focus my comments on what I consider "Life and Death" issues although there are many other issues to be addressed in the TEIR.

TRAFFIC ANALYSIS IS INADEQUATE AND INCOMPLETE

With level of service F on SR 94, it only makes sense that any additional traffic will without a doubt increase the chances of collisions and loss of life on an extremely congested and dangerous State Highway.

Regarding Vehicle Miles Travelled (VMT), both State and County Governments are discouraging new projects in the rural unincorporated areas of the County. Will the State and County comment on VMTs in regards to this proposed project? How will this apparent conflict be addressed?

Request that State and County Government Officials do an independent analysis of traffic impacts of the proposed project compared to the existing traffic ADT's and require that the JIV comply with State law and County policies regarding VMT's.

WILDFIRE RISK ANALYSIS IS INADEQUATE AND INCOMPLETE

This proposed project is in a High Fire Risk area where both State and County Governments are discouraging new development. In fact, some believe that new

I6-1

I6-2

development will essentially be stopped in the rural unincorporated area. Will State and County governments comment on wildfire risk in regards to this proposed project? How will this apparent conflict be addressed?

16-2
cont.

Request that State and County Government Officials do an independent analysis of wildfire risk and require that the JIV comply with the same State and County laws that would be required of any new development in this area.

EVACUATION PLANS ARE INADEQUATE AND INCOMPLETE

Regarding the possibility of a major fire storm with Santa Ana wind conditions starting in the East with winds blowing the fire to the West, there is a huge risk of “life and death” conditions due to entrapment along SR 94 and in the Casino/Hotel. Remember the Cedar Fire? Harris Fire? How will loss of life be prevented in the event of a major firestorm?

16-3

MAY 16, 2016 INTERGOVERNMENTAL AGREEMENT

Finally, an Intergovernmental Agreement was signed by the County and JIV more than 6 years ago. I request that a review of this Agreement be conducted by the County to determine whether or not the mitigation measures agreed upon by both the County and JIV have been met, prior to any further development of this property.

16-4

Concerning The Teir

Wed 11/9/2022 8:08 PM

From: Stacey Northum

To: Admin@jamulteir.com



Dear Admin,

I would like you to please consider our people of this beautiful landscape as you plan to move forward with the building of the Casino Hotel,

Please, my greatest concern is the traffic on Hwy 94 and all side roads. We have already felt the negative impact and safety issues since the Casino was opened.

This is my greatest concern.

Please build a concrete divider down the 94 to protect being hit.

Please if at all possible do whatever you can to improve the safety of our roads and community as well as your visitors.

Respectfully,

Stacey Kapey

Deadline of November 14, QUESTION



Thu 11/10/2022 5:20 PM

From: Preston Brown

To: Admin@jamulteir.com

Good Evening,

I have a question concerning your deadline of November 14.

It is acceptable if it is emailed on Monday the 14th all the way up to before midnight, right?

I mean the time sent will be its post mark, correct.

Please get back to me on this.

Thank you.

Preston

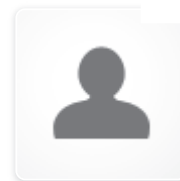
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Preston Brown

Chair, Jamul Dulzura Community Planning Group

18-1

FOR: Chairwoman, Erica M. Pinto FROM: JDCPG Chair



Thu 11/10/2022 2:12 PM

From: Preston Brown

To: Admin@jamulteir.com

Greetings Chairwoman Pinto,

Thank you for attending our meeting last month and having your team present the new project.

I would like to request an extension of time of 45 days. This TEIR is pack loaded with data and conclusions that require a depth of research to provide adequate responses to.

Our group was never notified on May 22 about the release of the NOP. Also we were notified by County Planner, Scott Christman, on October 6, 6 days after the release date of the TEIR.

We got a late start at this.

Especially complicated are the traffic issues. And the TEIR is incomplete as you are still negotiating with Local and State Agencies. It has resubmitted the Hollywood Casino "Fire Protection Plan" without any real occupancy numbers to predict the impacts of traffic from the additional services proposed.

I am available to talk with you by phone.
Please consider our request for additional time.

Sincerely,
Preston

=

Preston Brown

Chair, Jamul Dulzura Community Planning Group

19-1

Protesting JIV Hotel

Thu 11/10/2022 8:50 PM

From: Stephanie Dillon

To: Admin@JamulTEIR.com



Attached is the letter I am sending to the various reps and agencies on the list supplied by Marcia Spurgeon.

November 10, 2022

Governor Gavin Newsom
13013 10th Street, Suite 1173
Sacramento, CA 95814

Subject: Protest of Construction of Jamul Indian Village Hotel

Dear Governor Newsom:

The Jamul Indian Village is poised to construct a 16-story hotel adjacent to their casino without addressing in their Environmental Impact Report the effect upon traffic in the community.

The casino is situated on Highway 94, which is a two-lane road. This road is the sole route for towns to the east as well as carrying daily traffic from Mexico. From Jamul, the only other means of egress is the winding, narrow, two-lane road that is Jamul Drive. Both of these routes are heavily traveled regularly.

I enclose a portion of a recent article by County Supervisor Joel Anderson, describing results of the Border Fire of this year, sweeping through Dulzura and Potrero, causing over 1000 evacuations and destruction of 29 structures.

In 2007, I was evacuated when the Harris Fire destroyed hundreds of homes in Jamul. This was before the construction of the casino itself.

It is impossible to mitigate highway conditions in the event of an East County evacuation with the additional burden of the numbers from a hotel onto a two-lane road. How would emergency vehicles have access? How would residents of side roads escape?

The casino is immediately adjacent to nature preserves. What is the expected toll of wildlife? What is the mitigation of air pollution, light pollution, and noise pollution visited upon the community's residents?

Construction of the proposed hotel simply must not take place!

Respectfully,

Stephanie Dillon
P. O. Box 765
Jamul, CA 91935

Enclosure

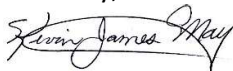
11/10/2022

Dear Chairperson Erica M. Pinto,

I am writing you concerning the proposed building project by the Jamul Indian Village (JIV). I am opposed to this going forward until the below concerns are addressed and/or given more consideration.

- **Fire**
 - The JIV is in one of the worst wildfire hazard areas in the state.
 - Wildfire evacuation is a big concern for this area and with the addition of this project it will only get worse. The event center can hold up to 1,500 people, the bingo hall 465. Add that to the occupants in the 225-room hotel and the attendees already in the casino and you could have well over 2,000 people trying to evacuate the Jamul Indian Village (JIV) property at the same time and doing it onto the 2-lane CA Highway 94. This could lead to severe grid lock and possible loss of life as has been seen in other California Wildfires. I heard of plans to have people evacuate early or in a staged manner or "shelter in place". You know people are not going to listen and everyone will try to leave all at once - especially when they see nothing except brush between them and the flames of the wildfire. It will be an evacuation disaster.
- **Roads**
 - Given the above scenario, it seems obvious that this project should be put on hold until CA HWY 94 is widened into a 4-lane road - at least from the JIV to the intersection of Campo Road and CA HWY 94. This would greatly improve evacuation efforts during a wildfire while at the same time facilitating emergency rescue and firefighting efforts.
 - Given the increase in the number of people using CA HWY 94 daily - especially when there are special events at the JIV, the congestion can be staggering, just like the first weekend the casino opened. Not only would this prolong the daily commute, but it would also hamper emergency services. Even more reason to put a hold on this and any other similar projects until CA HWY 94 is widened from a 2 to a 4-lane road.
 - Remember, CA HWY 94 is already rated as "F" as it is right now - you cannot get worse. It needs to have at least a passing grade before we add any significant traffic load.
 - Also, please finish previously promised road improvements before going any further.
- **Environment**
 - Light pollution - we have neighbors being affected by casino light pollution. What do you think a 16-story 225 room hotel will do? The regional plan has a "dark sky" policy, but it has not been effective so far and it will only get worse with this project.
 - Noise pollution - same situation as the light pollution. Neighbors say they can hear the words to the music being played each night. What will it be with the addition of an event center, and (as far as I know) unproven sound mitigation efforts.
 - Rancho Jamul Ecological Reserve - the animals in this reserve will also be affected by the excessive light and noise (especially at night).

Sincerely,



Kevin James May
 13997 Whispering Meadows Lane
 Jamul, CA 91935
 Email: kjmyamsi@cox.net

Comments re: NOC for the Jamul Casino Hotel and Event Center Project



Fri 11/11/2022 6:10 PM

From: Sue Bradham

To: admin@jamulTEIR.com

Cc: Sue Bradham

Via Email

admin@JamulTEIR.com

Attn: Chairwoman Erica M. Pinto

To Whom It May Concern:

I have multiple areas of concern about the proposed casino expansion, but the following are the ones I consider to be most critical.

SR94 is a two-lane road with a current rating by Caltrans as the lowest level, F. It is a dangerous highway. Traffic has grown exponentially since the casino was originally built. Serious accidents can keep the highway closed for multiple hours, stranding residents and visitors. I believe that the TEIR does not adequately address highway traffic from the following perspectives:

The developers assume that the addition of a hotel will decrease traffic, but that seems unlikely. First, even if the same number of visitors come to the casino, the traffic will not decrease, but rather stay the same with a shift of travel hours from the same evening to the following morning. Second, it seems even more unlikely that the hotel will not increase visitors to the casino; there would be no economic justification for building a hotel if it did not. Third, the TEIR does not address the impact of traffic from additional employees for the hotel or event center. Fourth, the TEIR does not address the potential effects of traffic outside of the hours of peak rush hour. Local residents use SR94 at all times of day: to drop off or pick up children at school in the morning or afternoon, to go to work at other hours, to go grocery shopping, to go to the gym, to go out to dinner, etc. Finally, the TEIR does not seem to adequately address the effect of increased traffic due to the events at event center. Additional traffic at the casino at all hours, including event hours, will have a significant negative impact on the safety and mobility of residents as SR94 is the primary road to Jamul.

I12-1

Increased traffic to the casino also impacts the ability of residents to evacuate in case of fire. Guests and patrons of the casino complex will flood the already crowded SR94, clogging evacuation routes and burdening the resources of the local fire department.

I12-2

In addition to inadequately addressing increased traffic, the TEIR does not propose an adequate solution to the severe negative impact to the scenic vista. One choice is obvious: change the design so that the height is considerably lower. This can be accomplished by lowering the capacity of the hotel and/or changing the footprint of the building so that the same number of rooms can be accommodated while keeping a lower profile.

I12-3

Furthermore, the TEIR does not address the negative impact to the county from reduced property values. As local residents' peaceful enjoyment of their property decreases due to the visual impact, light, noise, and traffic due to the casino and its hotel and event center, property values are likely to decline. Lower property values will negatively impact the county's ability to collect taxes that fund schools and other critical community services.

I12-4

This project is bad for the local community and should not proceed unless or until there is effective mitigation in place to address these concerns.

Susan Bradham

Via Email

Admin@JamulTEIR.com

Attn: Chairwoman Erica M. Pinto

To Whom It May Concern

Although there are multiple areas of concern, the following we believe to be the most critical.

SR94 is a two lane road with a current rating by Caltrans at the lowest level of F. It is a dangerous highway. The traffic has grown exponentially. We have serious accidents that can keep the highway closed for multiple hours stranding residents and visitors alike. From fender benders to serious collisions and deaths. The increase in traffic with a 250 room hotel and a 1500 person event menu would be catastrophic.

This should be a No Project based just on the traffic increase.

Another major concern is emergency services and safety for the community. Since the casino has opened surrounding areas have been impacted with homeless, thefts, prostitution, break-ins, abandoned cars, cars parking on the shoulder of the road and unbelievable amounts of trash.

Emergency vehicles have difficult navigating the already impacted road, causing delay times for responses but when the casino has an event the traffic is literally stopped for miles. Currently we have only one sheriff covering the Jamul community. This project would add a burden to the entire area. No Project

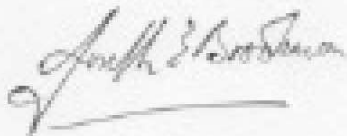
Extremely important issue for all of us is the label by Cal fire and the San Diego Fire Authority that we are in a "Sever Wildland Fire" area.

If the casino expansion would be built and a wildfire erupted, a number of people in the casino would flood SR94 two lane road. Bottlenecking the road causing an unsafe evacuation. Wildland Fires can be explosive and dangerous. High Wind shifts would be a disastrous event. Since we are a rural area the residents also evacuate their animals including horses, cows, goats, llamas, chickens, dogs and cats. Further adding to the congestion. The TEIR total ignores the fact that SR 94 continues through additional wildland fire areas, evacuees could be trapped on the road like the Paradise Fire. Emergency Fire engines and support vehicles would also struggle on SR94.

No Project Based on the overburden of SR94.

There are other concerns include noise, lighting, impacts on the Wildlife Preserve.

Regards,



Comments Re: NOC for the Jamul Casino Hotel and Event Center Project



Fri 11/11/2022 12:05 PM

From: RENE CARDINALE

To: Admin@JamulTEIR.com

Cc: secretaryjdcpg@gmail.com

Please respond to my concerns on the TEIR.

- Section ES.1 and 1.1 - Tribe is Lead Agency: Please encourage the Tribe to be responsible for the all the negative effects of the initial and this expansive development to all residents. Lead agencies should not flaunt their sovereign ability to ignore the concerns of effected residents.	I14-1
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- Table ES - 1, Aesthetics A & B, Mitigation Measure: No project alternative	I14-2
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- Table ES - 1, Aesthetics C, Mitigation Measures: 3.2-2 is not appropriate. The increase in lighting and reflected light from the hotel is inappropriate for this area.	I14-3
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- Table ES - 1, Air Quality & Greenhouse Emissions F: Mitigation measures listed to not eliminate the significant increase of GHGs and no TDM is presented.	I14-4
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- Table ES - 1, Hazards and Hazardous Materials D&E: NO mitigation listed for serious increase in chances of wildfires and impairment of emergency response due to increased traffic.	I14-5
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- Table ES - 1, Transportation and Traffic A: The local traffic has increased dramatically since the initial development and the hotel and entertainment center will bring even more impacts. A responsible Lead Agency would address and mitigate for the inevitable increase in trips per hour and impacts to residents.	I14-6
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- Section 2.3.5, page 2-7: NPDES Permit listed CA0084284 is expired. The Final TEIR should be updated to include the new NPDES permit number.	I14-7
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- Section 2.3.5, page 2-8: What are the testing requirements for a NPDES permit and where can hotel guests review results since this reclaimed water will be used in their rooms. Also, what will be the effects of over chlorinated water disposed of into Willow Creek?	I14-8
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- Section 2.3.9, page 2-12: Mitigation measure 3.3-3 states that electric boilers will be used in lieu of propane boilers but this section states that three propane boilers will be added; no electric ones are listed as being added?	I14-9
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- Section 3.2-1, end of third paragraph: Our County Scenic Highway will be negatively impacted by this project and no mitigation measures are referenced.	I14-10
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Section 3.2.2 - he environmental setting surrounding the existing casino has been negatively impacted but RVs and cars parking on nearby areas off the road. Trash left by these persons negatively impact the setting around these areas. These impacts were predicted by opponents to the casino development but not addressed by the casino developers. This expansion will make a bad situation worse. Since these negative impacts appear to follow these casinos, how will the JIV help to discourage or mitigate for these impacts?	I14-11
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Thank you,

Rene L. Cardinale

Comments regarding Jamul Casino Draft TEIR



Fri 11/11/2022 2:38 PM

From: stephen.comer@cox.net

To: Admin@JamulTEIR.com

Cc: secretaryjdcpg@gmail.com

To: Admin@JamulTEIR.COM, Attn: Chairwoman Erica M. Pinto

Dear Ms Pinto,

Comments regarding Jamul Indian Casino proposed Hotel/Bingo Hall/Event Center Project.

Our Recommendation: **NO PROJECT** based on our overall analysis of the study for the following reasons:

- I15-1 • **Announcement to the Community:** The community was not given “45 days to respond” as the study indicates. The Jamul/Dulzura Planning Group should have been informed immediately upon start of the study. They, along with the rest of the Jamul community, were blindsided to see on the Acorn Environmental Presentation, dated October 11, 2022, that a “Notice of Preparation” was issued on May 20, 2022, and a “Notice of Completion for the Draft TIER” was issued on September 30, 2022. It appears these documents were filed with “California State Clearinghouse” a secure online database. **Why was the Jamul/Dulzura Planning Group and the community not notified when these actions took place and will the response date deadlines be extended?**
- I15-2 • The **Draft TIER** was completed based on a study comparing the Jamul Indian Casino to a “2016 Study of the Cache Creek Casino Resort located near Brooks, California”. This does not appear to be a legitimate comparison. The study does not compare the size, condition and usage of “Highway 16” in Northern California with “Highway 94/Campo Road”. The study also does not compare the size of the two tribal lands, but a review of the Cache Creek Casino Resort website shows it is a very large reservation with room for swimming pools, a golf course, RV park, hotel with a new expansion of 459 rooms, etc., etc., etc. The hotel is not a “16 floor high rise”. The Cache Creek Casino Resort is nothing like the Jamul Casino.
- I15-3 • **Traffic Mitigation:** You cannot compare the traffic that will be generated by this project to any study that was done when the original casino study was done or to the traffic generated by the existing casino. Your study acknowledges that currently the casino operates 24 hours daily and traffic is constantly coming and going; there is no need for patrons to arrive or leave at a specific time. Addition of a Bingo Hall and Event Center will completely change that pattern. Bingo and Events (such as concerts) commence at a given time; all of the attendees will be coming at the same time. The gambling patrons will continue to flow in as they do now during the 24-hour period, but different patrons come to see concerts. The community knows, already, that whenever there is any kind of event at the current casino, even gift giveaway day that does not require pickup at a certain time, the traffic is heavier and causes long delays. Stand-still traffic completely blocks the highway and side streets, possibly preventing emergency vehicles from getting through when needed. The peak afternoon traffic includes people trying to get home from work and school; many are going to Mexico. Your study points out that this is also the time of day when the “Event Center” patrons will be coming to the casino.
- I15-4 • **Event Center:** Your study states the Event Center will be “25,500 sq ft”. While the study identifies the number of people (465) that will be accommodated in the Bingo Hall, all it spells out regarding the Event Center is the square footage. During your presentation to the Jamul/Dulzura Planning Group, your representative said the Event Center will have 1,500 seats. While that is already a staggering number, a room that is 25,500 sq ft could hold thousands of people – **is that why you chose to only address the square footage and not the number of people or the types of events?**
- I15-5 • **Environment:** Your property is right in the heart of a major wildlife preserve and the surrounding community of homes. Bright lights and noise that come from your existing casino already blatantly show total disregard for the wildlife and for your neighbors. Your study should have determined that the existing levels are already unacceptable; there is nothing that can mitigate the detrimental effects that will come from the additional lights and noise. **The community is still wondering why DCFW ever allowed your original project to drill soil nails into the wildlife preserve property, but that should not be approved again for this project.**
- I15-6 • **Fire Safety:** Jamul is in the “Very High Danger Fire District”. Your study states that in the case of fire your patrons will be sent out “first, before the town residents” or “sheltered in place”. Why would any study ever assume patrons would choose to “shelter in place” and burn to death in a building that is being consumed by a wildfire???? The patrons will choose to evacuate, along with all the other community residents on the highway. The highway traffic once again becomes a serious concern, but additionally, what happens when a fire breaks out in the high-rise hotel that is not associated with wildfire? Fires within buildings occur often, but high-rise buildings in East County are not common. Outside of downtown San Diego, rural fire departments are not equipped to fight high-rise fires.
- I15-7

I15-8

- **Sewage:** Since there are no sewer lines in Jamul and you cannot accommodate a septic tank, you already have trucks hauling sewage away from the existing casino on a daily basis. Tertiary treated wastewater drains to Willow Creek. Thousands more people will certainly generate tons more sewage. This will generate more truck trips on the highway and more effluent draining into Willow Creek and the local environment; **then where does it go when Willow Creek is saturated?** The fish and wildlife in the preserve and community are fragile and will die if they consume this effluent.

I15-9

- **Kumeyaay Honor:** The hotel and parking structure will be sandwiched right between the existing cemetery and the chapel. The study shows plans to place soil nails on the chapel property. To see the current Indians treat their heritage and ancestors this way is appalling and sickening. **Have the Kumeyaay Indians at Sycuan and Viejas signed off on this plan? Is that the way all Indians treat the remains of their ancestors?**
- Certainly, we have more comments and concerns, but time is of the essence, so this will conclude our submission for now. Thank you for your consideration.

Submitted by:**Helen and Steve Comer****14904 Presilla Drive****Jamul, CA 91935****email: stephen.comer@cox.net**

TEIR Response - Jamul Casino

Fri 11/11/2022 7:31 PM

From: Danielle Harman

To: "admin@jamulteir.com"

Cc: "gavin.newsome@gov.ca.gov", "governor@governor.ca.gov", "info.tribalaffairs@gov.ca.gov", "bios@wildlife.ca.gov", "robin_owen@dot.ca.gov", "tony.tavares@dot.ca.gov", "nathan.fletcher@sdcounty.ca.gov", "joel.anderson@sdcounty.ca.gov", "terr.lawson-remer@sdcounty.ca.gov", "jim.desmond@sdcounty.ca.gov", [View All \(15\)](#)



Via Email

admin@jamulteir.com

Attn: Chairwoman Erica M. Pinto

To Whom It May Concern-

I16-1 | Good evening. I am a local Jamul citizen with grave concern regarding the Jamul Indian Village (JIV) plans with building an entertainment center, bingo hall and hotel. The current casino already affects our daily lives. The increased traffic affects us every day. There are days that we also are impacted greatly by the noise that is emitted from the building. We can hear the music lyrics from the new rooftop floor of the casino. The current light pollution also affects the valley of Jamul. When the casino was originally built, we were promised that this would be mitigated, but as time has gone on things have gotten worse and the promises have not been kept.

I16-2 |

I16-3 | First off and most importantly, I would like to request that the Jamul Indian Village revises the current MOU and renegotiates it to mitigate the issues that will be brought to our community, your neighbors, with this new project. The current MOU was created and approved for the casino; not for an entertainment venue and hotel. This is a new project and a new or re-negotiated MOU should go through the correct process in the state so that all concerns of not only the community, but the county and state can be properly addressed.

After reviewing the TEIR, my two biggest concern are the environment and the wildlife as well as the safety of the community in case of the need of an evacuation. These will both be greatly affected by these plans.

I16-4 | In regards to the environment, with the current plans that the JIV has, there will need to be steel support rods drilled in to the ground and into the neighboring land, which is a protected Nature Preserve. This will have not only an effect on the nature preserve, but possibly could affect our water supply in Jamul as well. The majority of Jamul depends on wells to supply our water. These support rods could potentially seep into the ground water contaminating it. The nature preserve run off also is what feeds Otay Lakes, which is the water supply for all of the South Bay area of San Diego.

I16-5 | In addition to my concern with the water contamination, is the concern of the light and sound pollution to the wildlife in the area. The current plans that JIV has issued does not address how they are going to mitigate the light and the noise from the outdoor entertainment center. The noise and the light pollution will not only continue infect the daily lives of the neighbors, but it will also infect the wildlife that is being protected on the Nature Preserve. The light pollution of a 16-story hotel with glass windows will also be a huge cause of light pollution in the area. The JIV will not be able to mitigate when a guest of the hotel has the lights on or off in their room, which will pollute the neighboring community. No matter how a 16-story building is place in Jamul, it will be out of place in our small rural and remote town.

I16-6 | In regards to community safety, I am gravely concerned about the safety of the roadways and evacuation in case of an emergency. Jamul is a community that has been affected numerous times by fire and forced evacuations. Our only route of travel is State Highway 94, which holds an "F" grade for safety. We already risk our lives everyday traveling this road. I can't imagine what adding possibly 500+ cars all at once, one to two times a week, on to Hwy 94 highway

I16-6
cont.

would do. (I am estimating 500+ cars given the number of people the entertainment center will hold, along with nighttime bingo, and the extra cars traveling to and from the hotel.) In the past, when we have had mandatory evacuations, our highway has been gridlocked with community members trying to evacuate, not only themselves, but the livestock in the area. People that are not familiar with this routine aren't going to sit in place and stay at the hotel and casino, they too, will add to the traffic of the community trying to get to safety. This will cause a major gridlock and could be catastrophic! Emergency personnel will also be affected by this increase in traffic by not being able to travel our roads.

I16-7

The TEIR shows the research that the JIV did in regards to traffic. I believe after reviewing the report that the company that the tribe hired to perform the data collection greatly manipulated the report to favor the JIV. I do not believe that this company acted without bias and that it needs to be re-done properly to address the traffic and safety concerns of the community. Our travel times home each day have been greatly affected by the additional traffic. It is hard to enter and exit our roadway that is not far from the casino. The days that the casino already has giveaways or events will add up to 30 minutes to our commute.

In the traffic report, it did state what the tribe was currently working on to improve Hwy 94. They have been working on these items since the casino opened on October 10, 2016 and they are nowhere close to even being started! (In addition, the JIV is trying to undercut the costs for these projects that were negotiated in the original MOU!) I think these improvements need to be completed before even considering adding-on or starting a new project.

One of these road mitigation projects specifically is to add additional lanes at Hwy 94 and Steele Canyon. They are "awaiting the right-of-way acquisition" to make this happen. The right-of-way acquisition will require taking away the parking lot of 4 locally owned business. This will require these 4 locally owned businesses to shut their doors. I do not believe that the Jamul Indian Village should have the control of taking away or closing family owned business in our community for their benefit.

I16-8

Another concern of mine is that the TEIR failed to mention the increase of drugs and crime in our community since the opening of the casino. Our neighborhoods have riddled with drugs and crime since the casino has opened. The casino has attracted this to our community. I have driven through and sat in my car in the parking structure to see the drug deals occurring on their premise. I believe that the JIV should be responsible for providing the additional research on how crime rates have increased in the immediate area and provide details on how these crime rates can be controlled with an increase in customers.

In collusion, as a concerned community member, that is also raising my children here, I would like for the JIV to reconsider this project and go with the alternative to not move forward with this project, at least until the community has been given ample time to address their concerns and a NEW or re-negotiated MOU is put in place. I would also request that the road mitigation be completed before the project is started. I am also requesting that the JIV give full details on how the noise and lights will be mitigated from the event center and the hotel prior to starting this project.

Please reconsider this project.

Regards,

Danielle Harman

Via Email

Admin@JamulTEIR.com

Attn: Chairwoman Erica M. Pinto

To Whom It May Concern

Although there are multiple areas of concern, the following we believe to be the most critical.

SR94 is a two lane road with a current rating by Caltrans at the lowest level of F. It is a dangerous highway . The traffic has grown exponentially. We have serious accidents that can keep the highway closed for multiple hours stranding residents and visitors alike. From fender benders to serious collisions and deaths. The increase in traffic with a 250 room hotel and a 1500 person event menu would be catastrophic.

This should be a No Project based just on the traffic increase.

Another major concern is emergency services and safety for the community. Since the casino has opened surrounding areas have been impacted with homeless, thefts, prostitution, break-ins, abandoned cars, cars parking on the shoulder of the road and unbelievable amounts of trash.

Emergency vehicles have difficult navigating the already impacted road, causing delay times for responses but when the casino has an event the traffic is literally stopped for miles. Currently we have only one sheriff covering the Jamul community. This project would add a burden to the entire area. No Project

Extremely important issue for all of us is the label by Cal fire and the San Diego Fire Authority that we are in a "Sever Wildland Fire" area.

If the casino expansion would be built and a wildfire erupted, a number of people in the casino would flood SR94 two lane road. Bottlenecking the road causing an unsafe evacuation. Wildland Fires can be explosive and dangerous. High Wind shifts would be a disastrous event. Since we are a rural area the residents also evacuate their animals including horses, cows, goats, Llamas, chickens, dogs and cats. Further adding to the congestion. The TEIR total ignores the fact that SR 94 continues through additional wildland fire areas, evacuees could be trapped on the road like the Paradise Fire. Emergency Fire engines and support vehicles would also struggle on SR94.

No Project Based on the overburden of SR94.

There are other concerns include noise, lighting, impacts on the Wildlife Preserve.

Regards,

Stephanie Dillon
Jamul

----- Forwarded message -----

From: <vhoban@cox.net>

Date: Fri, Nov 11, 2022 at 8:11 PM

Subject: Comments: Tribal EIR for the Jamul Casino Hotel and Event Center Project

To: <Admin@jamulteir.com>

Cc: <epinto@jiv-nsn.gov>, <rsawyer@acorn-env.com>

Friday, November 11, 2022

Comments: Tribal EIR for the Jamul Casino Hotel and Event Center Project

Chairwoman Erica M. Pinto,

I am a long-time resident of Rancho Jamul Estates immediately to the east of the Jamul Casino. My husband and I moved to Jamul to live in a rural environment free from the traffic, noise and other urban detriments associated with city living. Our home is one of the most environmentally impacted properties near the Jamul Casino. We are directly across the valley from the casino, and have line-of-site exposure to frequent and excessive casino noise. The casino already degrades our view of the local Jamul Mountains. The proposed Hotel will obliterate what is left of our view of beautiful Mount San Miguel and the Event Center will impose additional nighttime noise pollution.

We find the treatment of the significant adverse and unmitigable noise and scenic vista impacts to the surrounding community in the TEIR to be disingenuous. Not a single residence within Rancho Jamul Estates was evaluated as a sensitive receptor for scenic vistas or noise. The casino is visible from most of the homes in RJE, and many of our neighbors have regularly experienced excessive noise from the Jamul casino's existing entertainment activities. The noise is sometimes so distinguishable that we are able to identify the artists and lyrics.

By the JIV's own admission in the TEIR, the significant adverse impact on scenic vistas cannot be mitigated. Further, the description of the event center and the proposed noise mitigation measures are sketchy. The event center is described as an outdoor covered venue, and yet we are asked to believe that noise transmission through exterior walls will be minimized. Given these ambiguities, the only option to protect the surrounding community from these impacts is the No-Project Alternative. If the JIV was serious about mitigating noise pollution from the event center, it would clearly describe the physical architectural construction of the event center and commit to specific sound transmission class of the proposed construction materials.

Until a credible project description and mitigation measures are offered, the No-Project Alternative is the only equitable option. The JIV and its consulting firm, Acorn Environmental, need to produce credible CEQA-worthy environmental planning documents.

Sincerely,
Veronica Hoban

Via Email

Admin@JamulTEIR.com

Attn: Chairwoman Erica M. Pinto

To Whom It May Concern

Although there are multiple areas of concern, the following we believe to be the most critical.

SR94 is a two lane road with a current rating by Caltrans at the lowest level of F. It is a dangerous highway . The traffic has grown exponentially. We have serious accidents that can keep the highway closed for multiple hours stranding residents and visitors alike. From fender benders to serious collisions and deaths. The increase in traffic with a 250 room hotel and a 1500 person event menu would be catastrophic.

This should be a No Project based just on the traffic increase.

Another major concern is emergency services and safety for the community. Since the casino has opened surrounding areas have been impacted with homeless, thefts, prostitution, break-ins, abandoned cars, cars parking on the shoulder of the road and unbelievable amounts of trash.

Emergency vehicles have difficult navigating the already impacted road, causing delay times for responses but when the casino has an event the traffic is literally stopped for miles. Currently we have only one sheriff covering the Jamul community. This project would add a burden to the entire area. No Project

Extremely important issue for all of us is the label by Cal fire and the San Diego Fire Authority that we are in a "Sever Wildland Fire" area.

If the casino expansion would be built and a wildfire erupted, a number of people in the casino would flood SR94 two lane road. Bottlenecking the road causing an unsafe evacuation. Wildland Fires can be explosive and dangerous. High Wind shifts would be a disastrous event. Since we are a rural area the residents also evacuate their animals including horses, cows, goats, Llamas, chickens, dogs and cats. Further adding to the congestion. The TEIR total ignores the fact that SR 94 continues through additional wildland fire areas, evacuees could be trapped on the road like the Paradise Fire. Emergency Fire engines and support vehicles would also struggle on SR94.

No Project Based on the overburden of SR94.

There are other concerns include noise, lighting, impacts on the Wildlife Preserve.

Regards,

Casino addition

Fri 11/11/2022 4:14 PM

From: Sharon

To: Admin@jamulteir.com



To whom this may concern,

I am very concern regarding the new additions to the Jamul Casino. We already have terrible traffic concerns as I'm sure you're aware. So since this would add to this problem, out of respect to our community, I hope you are putting something In your plans to help with this problem. It is unsafe to have so much traffic in out rural area.

Thank you for your attention to this,

Sharon Kitchen
Lyons Valley Rd.

Comments Re: NOC for the Jamul Casino Hotel and Event Center Project



Fri 11/11/2022 10:10 AM

From: Janet Luecht

To: Admin@jamulteir.com

Attn: Chairwoman Erica M. Pinto

Although there are multiple areas of concern, the following we believe to be the most critical.

SR 94 is a two lane road with a current rating by Caltrans at the lowest level of F. It is a dangerous highway. The traffic has grown exponentially. We have serious accidents, from fender benders to serious collisions and deaths that can keep the highway closed for multiple hours stranding residents and visitors alike. The increase in traffic with a 225 room hotel, a 1,500 person event center and a 9,250 square foot multi-purpose/bingo hall would be catastrophic. This should be a "No Project" based just on the traffic increase.

Extremely important issue for all of us is the label by Cal Fire and the San Diego Fire Authority that we are in a "Sever Wildland Fire" area. If the casino expansion would be built and a wildfire erupted, a large number of people in the casino would flood the SR 94 two lane road. Bottlenecking the road causing an unsafe evacuation. Wildland Fires can be explosive and dangerous. High wind shifts would be a disastrous event. Since we are in a rural area the residents also evacuate their animals including horses, cows, goats, llamas, chickens, dogs and cats further adding to the congestion. The TEIR total ignores the fact that SR 94 continues through additional wildland fire areas. Evacuees could be trapped on the road like the Paradise Fire. Emergency fire engines and support vehicles would also struggle on SR 94. This is another valid "No Project" based reason on the overburden of SR 94.

Another major concern is emergency services and safety for the community. Since the casino has opened in 2016 surrounding areas have been impacted with homeless, thefts, prostitution, break-ins, abandoned cars, cars parking on the shoulder of the road and unbelievable amounts of trash.

Emergency vehicles have difficulty navigating the already impacted road, causing delay times for responses but when the casino has an event the traffic is literally stopped for miles. Currently we have only one sheriff covering the Jamul community. The project would add a burden to the entire area. Another valid reason for "No Project".

There are other valid concerns including additional noise and lighting pollution, along with the negative impacts on the Wildlife Preserve.

Regards,

Roger and Janet Luecht

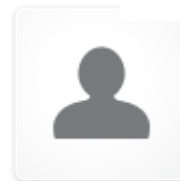
Residents of Jamul

Re: letter

Fri 11/11/2022 1:53 PM

From: Rob Murphy

To: Admin@jamulteir.com, brown.preston@gmail.com, Marcia Spurgeon



I added a link to the fire issue declared by the San Diego judge, Ive attached a modified doc. Also consider contacting this jude, I cant find his email yet.

On Fri, Nov 11, 2022 at 10:08 AM Rob Murphy <rob.murphy@schrodinger.com> wrote:

Please find a letter to counter the Casino hotel, thank you for your efforts.

--

Rob Murphy | Senior Scientist



--

Rob Murphy | Senior Scientist



Attachments:

- casino.doc

To whom it may concern,

11.10.22

I have lived in Jamul for almost ten years. It WAS a nice small quiet town UNTIL the casino was built. Since the casino was built it's a mess of bad traffic and crime. It now takes almost 20 minutes to drive the two miles to Jamacha Rd where the main highway entrance is, previously a 7 min drive. Futhermore the traffic along Hwy 94 in this section between Jamul and Jamacha is in gridlock. It was never like that before the casino was built. I live within a mile of the casino and the criminal events near my house have sky rocketed since the casino was built. One night we were awakended to machine gun fire. A person on drugs who was reported to have been a casino visitor decided to start shooting a machine gun less than 50ft from my house. He was so far gone he had to be taken down by 5 sherriffs. A second night a car crashed at the corner of our house. My wife found the driver was drunk or on drugs and had an ATM machine on the ground next to his car ! These crashes are not uncommon ~ 10 a year. On most nights that Im outside I hear ganster music in the passing cars, many of which stop in front of the house to "check us out". Once they jumped our fence and approached the house until I confronted them. It's not a safe place to live, I sleep with a rifle by my bed. The 'preserve' land accross the street is now flooded with illegal aliens some of which carry guns (I was confronted by them once). In the past years there has been talk of developing this preserve with a massive housing project. Thankfully the project was shut down ** because a judge determined the fire dangers are too severe (see link below) **. The land is tinder dry grass and brush in the summer and it has exploded into huge fires as history shows. Given that the road system can barely handle traffic now, what will happen in a major fire ? As it is many would die. Add on to that a huge casino hotel and it's obvious many more will die and firefighters will have no chance to get in place. I would like to ask about zoning laws. How is it possible that the proposed massive structure complies with local zoning laws ? Note that Jamul has ** no sewage system **. Where is the massive hotel sewage going to go ? I believe the casino presently dumps it into a pond off their property. How is this legal ? Your commissions have to look into this issue, again there is no sewage system in Jamul. Finally you should review the work done in litigating the casino which has proven this "tribe" is not legitimately an Indian tribe like for example the tribe that runs Sycuan. What tribe lives on a tiny 4 acre parcel ? None. That fact alone disqualifies them from not obeying state laws. Someone needs to step up for the average citizen here instead of letting this casino to be expanded, if not you will face your political demise as others in this semi-communist state are starting to do. The citizens here have had enough of this abuse, you are elected to improve their lives, not allow lawlessness and chaos !

Would you like this to happen next to your house ? Get real and stop this insanity now.

I22-1

I22-2

I22-3

I22-4

I22-5

I22-6

Robert Murphy

<https://www.eastcountymagazine.org/judge-blocks-otay-ranch-development-orders-county-reverse-approval-due-wildfire-dangers>

Response to Proposed Addition to Jamul Casino property.

Fri 11/11/2022 12:31 PM

From: "joleen@joleenschultzassociates.com"

To: "Admin@JamulTEIR.com"



Chairwoman Erica Pinto

I am a 18-year Jamul resident and extremely concerned about the proposed hotel / entertainment venue on the Jamul Casino land.

My primary concerns are three-fold:

1. Of utmost importance is the safety of Jamul residents – especially in the event of evacuation
 - a. The current casino has brought severely increased traffic on Highway 94, without the benefit of the traffic mitigation that was agreed to by the Casino in order to be built! As a long-time resident, I have been required to evacuate with large animals. A venue, such as the one proposed, would make an evacuation impossible for local residents and their animals to evacuate safely and in time.
2. Environmental Impacts
 - a. The current facility is not mitigating sound, as promised. I live a mile away and can discern the words to the music on some nights. And sometimes it's karaoke!
 - b. The original project got away with the construction nails. That should not be allowed this time around.
3. Safety / Quality of life
 - a. We are also seeing significantly increased crime and homelessness since the opening of the Jamul Casino.
 - b. My previously 10 min drive at 'rush hour' now can take up to 50 minutes.

Please do what is right for the residents, the environment and the community and put a stop to this ludicrous project right now!

Respectfully submitted,

Joleen Schultz and Dave Darnell

Comments: Tribal EIR for the Jamul Casino Hotel and Event Center Project

Fri 11/11/2022 8:11 PM

From: vhoban@cox.net

To: Admin@JamulTEIR.com

Cc: epinto@jiv-nsn.gov, rsawyer@acorn-env.com



Friday, November 11, 2022

Comments: Tribal EIR for the Jamul Casino Hotel and Event Center Project

Chairwoman Erica M. Pinto,

I24-1

I am a long-time resident of Rancho Jamul Estates immediately to the east of the Jamul Casino. My husband and I moved to Jamul to live in a rural environment free from the traffic, noise and other urban detriments associated with city living. Our home is one of the most environmentally impacted properties near the Jamul Casino. We are directly across the valley from the casino, and have line-of-site exposure to frequent and excessive casino noise. The casino already degrades our view of the local Jamul Mountains. The proposed Hotel will obliterate what is left of our view of beautiful Mount San Miguel and the Event Center will impose additional nighttime noise pollution.

We find the treatment of the significant adverse and unmitigable noise and scenic vista impacts to the surrounding community in the TEIR to be disingenuous. Not a single residence within Rancho Jamul Estates was evaluated as a sensitive receptor for scenic vistas or noise. The casino is visible from most of the homes in RJE, and many of our neighbors have regularly experienced excessive noise from the Jamul casino's existing entertainment activities. The noise is sometimes so distinguishable that we are able to identify the artists and lyrics.

I24-2

By the JIV's own admission in the TEIR, the significant adverse impact on scenic vistas cannot be mitigated. Further, the description of the event center and the proposed noise mitigation measures are sketchy. The event center is described as an outdoor covered venue, and yet we are asked to believe that noise transmission through exterior walls will be minimized. Given these ambiguities, the only option to protect the surrounding community from these impacts is the No-Project Alternative. If the JIV was serious about mitigating noise pollution from the event center, it would clearly describe the physical architectural construction of the event center and commit to specific sound transmission class of the proposed construction materials.

Until a credible project description and mitigation measures are offered, the No-Project Alternative is the only equitable option. The JIV and its consulting firm, Acorn Environmental, need to produce credible CEQA-worthy environmental planning documents.

Sincerely,

"Comments Re: NOC for the Jamul Casino Hotel and Event Center Project"

Fri 11/11/2022 1:16 PM

From: Valerie Wayson**To:** "Admin@JamulTEIR.com"

The Jamul Indian Village is planning to expand the existing Casino and add a 16 story Hotel/Event Center, and Bingo Hall.

THIS PROJECT SHOULD BE STOPPED. IT DOESN'T FIT OUR COMMUNITY AND NEVER WILL. We have the right to a safe community, and the following points to the Life and Death Issues we face if this is allowed.

1. Increased traffic on Highway 94, which already has an F---- grade from CAL TRANS
2. Wild Fire Danger- IF a wild fire occurs we are all put in danger, the casino plans to have patrons "Shelter in Place" are you kidding. THAT IS RIDICULOUS . The patrons will run as fast as they can if a wild fire threatens Jamul. Along with thousands of residents trying to escape on a 2 lane highway 94 with an F----Grade from Cal Trans.
3. Environmental Pollution-Noise-Water- Lights. Already we experience noise late at night from the events, Lights in our designated DARK SKY area, and Water effluent being put in Willow Creek Watershed that feeds Otay Reservoir.(drinking water)

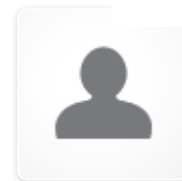
RESIDENTS OF JAMUL DESERVE BETTER! Thank you for listening.

Jamul Casino expansion

Fri 11/11/2022 6:49 PM

From: Marek Winiarz

To: brown.preston@gmail.com, Admin@jamulteir.com



To all who read this letter,

I am a 24 year Jamul resident and I strongly oppose the proposed additions. In particular we cannot allow a 12 story skyscraper in Jamul. It is totally incompatible with this community and will adversely affect light pollution and our pastoral views. We must fight this nefarious expansion and mission creep that deteriorates the safety of our community and makes traffic on SR94 a nightmare.

Let Jamul be Jamul!

--

Marek Winiarz PE

mlwiniarz@gmail.com

Mobile 619-246-9534

Jamul Casino

Sun 11/13/2022 6:16 PM

From: Juan Gabriel

To: Admin@jamulteir.com



Please do not allow the Jamul Casino to construct any further. Their proposed plan will be extremely harmful to the vegetation and the wildlife. It will also increase traffic in our community. It takes us sometimes 30 minutes to travel 3 miles when the casino has events. If the build the hotel it will devastate our community. Please stop it.

Juan M.
Jamul resident

Sent from my iPhone

11/15/22, 3:40 PM

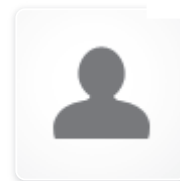
Jamul casino

Jamul casino

Sun 11/13/2022 6:23 PM

From: Tammy Marquez

To: Admin@jamulteir.com



Please do not allow the Jamul Casino to construct any further. Their proposed plan will be extremely harmful to the vegetation and the wildlife. It will also increase traffic in our community. It takes us sometimes 30 minutes to travel 3 miles when the casino has events. If the build the hotel it will devastate our community. Please stop it.

Tammy M.
Jamul resident

Sent from my iPhone

Hotel

Mon 11/14/2022 10:54 AM

From: Vicki Beers

To: "Admin@JamulTEIR.com"



I am writing to you with concerns of road safety with the building of a hotel right off Highway 94. The road is already over crowded, the casino has added tons of traffic. Since we are in a high risk fire area, people would not be able to get out if we had another big fire. The accidents on the road have increased beyond compare. There is not a day that goes by without an accident, people driving like crazy because the traffic is so backed up. If you cannot widen the road from Jamacha to the casino, you should not build a hotel.

Other reasons: Increased crime (came with the casino)

Mail theft (came with the classy clientel from casino)

Increased drug activity.

Increased homeless trying to get rich at casino, starting fires, breaking into peoples cars, homes, etc.

Jamul is NOT a place for a hotel.

It is sad that a few people (village) can effect the lives of an entire community and they don't care. To bad greed will ruin our rural community. I thought native American Indians cared about the land.....haha

Sent from [Mail](#) for Windows

Admin@JamulTIER.com
Attn: Chairwoman Erica M. Pinto

Re: Jamul Casino Expansion

Date: November 11, 2022

To whom it may concern,

We, as Jamul residents who live near the Jamul casino, have many concerns over the proposed expansion to the Jamul Casino that we believe is due to begin in December 2022, but the casino TEIR has failed to provide definitive information or exact date for the expansion. This expansion includes a 225 room 16 story hotel, Casino remodel to include remodeling the existing casino to expand it by 35,000 sf which will include a 1500 person event center and multi-purpose/bingo hall, and an additional 6-story parking garage.

There are only two rural two lane roads to get in and out of Jamul. One is Otay Lakes Rd which is in the middle of the fire danger area and the other, main route, is SR94. **SR94 is a two lane road with a current rating by Caltrans at the lowest level of F.** This is a dangerous highway that has seen a dramatic increase in traffic since the opening of the casino. There are serious accidents and even deaths on an almost weekly basis now, that can keep the highway closed for multiple hours stranding residents and visitors alike. The increase in traffic with the proposed 6 story parking garage, 16 story hotel, bingo and a 1500 person event venue would be catastrophic. Especially with an event that could hold and attract 1500 additional people that starts and ends at specific times, and the casino serving alcohol and then letting that many people onto our rural 2 lane roads that are already so dangerous that they have an F rating from CalTrans. This project should not be considered just based on the lack of infrastructure.

Our rural community of Jamul is labeled by CalFire and the San Diego Fire Authority as a "Severe Wild land Fire" area, in which **Jamul is rated at a higher risk for fire danger than the community of Paradise which ended in tragedy.** If the casino expansion would be built and a wildfire erupted, a large number of people in the casino would flood the SR94, a two lane road. This would bottleneck the road causing an unsafe evacuation for everyone. Wild land fires can be explosive and dangerous. High wind shifts would be a disastrous event. Since we are a rural area the residents also evacuate their animals using multiple trailers for their livestock, further adding to the congestion, thus, evacuees could be trapped on the road like the Paradise fire. Emergency fire engines and support vehicles would also struggle on SR94. The casino's plan to either evacuate early, which isn't always possible, or shelter in place, could be disastrous. We have seen many people traveling out into our rural area of high fire danger throw a lit cigarette butt out of the car window into the dry brush at the side of the road while waiting in the long traffic lines. Most visitors to our area have not lived with a constant threat of wild fire and evacuations and unthinkingly put us at a higher risk through thoughtless actions such as this. Across California, approximately 350,000 people live in fire zones that have no more evacuation routes per

person than Paradise, according to the 2019 analysis. **San Diego County has only three areas with relatively few exit routes: Jamul, Ramona and Scripps Ranch.** This is a disaster just waiting to happen.

Currently we **have only one sheriff covering the entire rural Jamul community.** Emergency vehicles have difficulty navigating the already impacted road, causing delay times for responses. When the casino has an event the traffic is literally stopped for miles. Currently these are small events, nothing compared to the proposed venues the casino is planning and this impacts the emergency services, and the health and safety for the community. Since the casino has opened in 2016, the surrounding areas and neighborhoods have been impacted with homelessness, thefts, prostitution, break-ins, abandoned cars, cars parking on the shoulder of the road and unbelievable amounts of trash. We actually need more sheriffs and emergency services to cover the already stressed safety of our community even without the proposed expansion.

The casino backs up to the Rancho Jamul and Otay Ecological Preserves. The casino is built up against the preserve with anchors that extend into the preserve. The new 6 story parking garage and 16 story hotel will also extend anchors into the preserve without any buffer zone for fire or pollution containment. There should be at least a 100 foot minimum fire mitigation zone around the casino for the safety of its occupants, but they are unable to do so because that would encroach into the preserve, they have already over built for the size of their property and cannot do so without encroaching into the ecological preserve. The light, noise, and activity including cars, their exhaust are other concerns impacting the Wildlife Preserve and its many endangered species. The light pollution already affects not only the preserve but all the residents in our rural area. The residents in this rural area live here to be away from the noise, traffic and light pollution of the city and this new casino development will only increase all of these factors exponentially. This casino project encroaches on our rights and is in violation to the **San Diego County Light Pollution Code** that is part of the **County of San Diego Dark Skies and Glare requirements.**

The Jamul Indian Casino is not a popular venue for the local residents who have to live with the increased traffic, crime, risk for fire danger, and all forms of pollution, but this proposed expansion to the Jamul Casino is nothing but greed and will severely impact not only our rural area but also negatively impact the ecological preserve and our dark skies. The residents of Jamul are asking that you stop this proposed expansion nightmare in our community.

Sincerely,

Carol Olsen

Carol Olsen
Jamul Resident
colsen2@cox.net
cc: state and local officials

TO: admin@jamulTEIR.com
 secretaryjdcpg@gmail.com
 ATTN: Chairwoman, Erica M. Pinto
 DATE: November 13, 2022

Traffic is one of my major concerns to the proposed Jamul Casino expansion.

- The high volume of traffic and excessively high speed limits for existing conditions mainly on Proctor Valley Road, and on the connecting roads of Melody Rd and Maxwell Roads.
- Proctor Valley Rd between Echo Valley Rd and Campo Rd/Highway 94 is a double yellow marked road, two lane road, and approximately 2 miles in length. It has posted speeds between 15 mph on corners, 25-45 mph for the first mile from Highway 94 and 55 mph for the last mile to Echo Valley Rd. There are about 10 posted speed limit changes in the 2.2 miles.
- The entire 2.2 mile section is marked with double yellow traffic lines due to blind corners, driveways and side street entrances that are obscured due to rolling hills, winding roads, brush and other obstructions. There is minimal to no shoulder or walk path and the residential mailboxes and trash service are actually on the edge of the road, making it necessary to put out trash cans or to get mail you have to watch traffic and stand in the street to do so, many of which are on blind corners and/or hills. Trash trucks, mail trucks and school buses stop in the traffic lanes. **It should also be noted that there are many who use this route that are unfamiliar with the area, using it as a shortcut to go from Chula Vista to the Jamul Casino.**
- This section is home to many horse properties the wildlife "Nature Preserve" and Proctor Valley. This section is regularly used by adults and children riding horses, bicycles, hikers, joggers, dog walkers and agricultural equipment (i.e. tractors). All of this is done in the roadway, daily, as there are no sidewalks, no shoulder or walking path. This is a major safety hazard at the posted speeds on a narrow winding road with no area to ride, walk, run, etc without being in the traffic lanes where visibility is obstructed by terrain. We personally travel the road at 30 mph and have had to slam on our brakes to avoid hitting a farm tractor, a jogger, children on bicycles and a boy taking out the trash. If we had been going any faster we would not have been able to avoid any of them, it's no wonder that there are so many accidents on this stretch of rural residential road.
- Many drivers exceed the posted speed limits and pass on the double yellow line.
- **There are many traffic accidents on Proctor Valley Rd as well as SR94 which has a CalTrans rating of F and Otay Lakes Rd which is just as, or more, dangerous with as many accidents. all of which are feeders to the Jamul Casino and in a high fire danger area. To increase the traffic on these two lane roads without any safety or infrastructure upgrades is foolhardy and will only increase the number of injuries and deaths that already occur on these roads.**
- Daily there are anywhere from 2 - 16 Border Patrol vehicles and officers searching or detaining large groups of illegal immigrants, and drug smugglers that have crossed the nearby border, and are sitting on the edge of the road while being processed.
- **See attached map with the current posted speed limits.**

I31-1

Please consider making the following traffic changes for the safety of our residential community:

- **Lower the speed limits for the entire length of Proctor Valley Rd, Maxwell and Melody Roads, to 30-35 mph as per CA State Law which states, "When local and small back roads pass through a residential area, the speed limit will usually drop to 30 mph or below"**
- All sharp turns and "S" curves should remain at 15 mph.
- In light of the increased housing and traffic in the Jamul area due to casino traffic we need to adjust our speed/traffic controls accordingly.
- Lowering the speed limit to 30-35 mph would only add approximately one minute or less to the travel time of this 2.2 mile section, potentially save lives, and promote a more relaxed and enjoyable rural residential community.
- In the Chula Vista Eastlake area that is adjacent to Jamul, the speed limits are much lower than the Jamul area. Eastlake has mostly 4 lane roads with dividers and the speed limits are substantially lower.
- Lower all speed limits on SR94 and area Jamul roads by a minimum of 10 mph from Campo Rd. to Otay Lakes Rd. Actual vehicle travel times would be consistent and the traffic flow would be safer. I participated in traffic flow supervision for 30 years and have seen this work.
- Many fatal head on collisions occur due to vehicles crossing into oncoming traffic (i.e., illegal passing, excessive speed, inattentive driving, DUI, smuggling etc.). Suggested solutions are as follows:
 1. Designate SR94 from Campo Rd to Otay Lakes Rd a "Safety Enhanced Double Fine Zone". This also assists law enforcement to remove unsafe drivers vehicle operating privileges and hopefully will give extra patrols in the area.
 2. Install Flexible Delineator Round Posts from Campo Rd to Otay Lakes Rd to discourage illegal passing. An example of these is Highway 67 from Lakeside to Ramona. Highway 67 is a much safer road now with head on collisions virtually eliminated.
 3. Concrete K-rail is an option to flexible delineator round posts from Campo Rd to Otay Lakes Rd. This would eliminate head on collisions.
 4. These changes are needed NOW due to the casino impact, any additions to the casino, or the development of their 185 acre property, will negatively add to an already dangerous situation.

I31-1
cont.

Another concern is the wildfire danger in this area.

- The Jamul area has experience fires and evacuations yearly. We are listed as one of the top 3 areas in the County of San Diego for fire danger and limited access to evacuate. Unless the roads are widened and made safer, the additional people coming to the casino are in very real danger. The Paradise fire is what WILL happen here, it isn't a fact of if, it is when. Then adding the additional proposed expansion occupancy, should not even be a consideration.
- The casino plan to release all of its occupants onto the already impacted roads during an evacuation or have them shelter in place is catastrophic. The roads will be at a standstill, as they are almost daily as it is, then to add evacuations of every person, horse trailers, livestock trailers

I31-2

and emergency personnel trying to access the area, it already is a nightmare, please do not let them add more occupancy to the casino to only impact this problem even further.

I31-2
cont.

Police and Emergency Services are understaffed

- Police, fire, EMT, border patrol and all services are stretched thin in this community. We have only 1 sheriff assigned to our entire community and many times when we call to report a problem we have to leave a message on voicemail. This is unconscionable.
- The ongoing unresolved border issues are bringing a flood of undocumented immigrants literally through our backyards increasing crime, drugs and human smuggling. The existing emergency services are working as hard as they can, but we are seriously under staffed.
- The Jamul Casino has brought into our community a flood of crime, prostitution, DUI's , and so many issues it is hard to list them all. Needless to say, attracting a larger crowd to the casino by their proposed expansion should not even be considered. The negative impact on our whole communities quality of life has been impacted. They have a right to live freely and earn a living as all of us do, but they do not have the right to impact the quality of life of each and every person in Jamul.
- There is a historic sign, on the Indian owned historic Barrett Farm on 185 acres, on the intersection of SR94 and Jefferson Rd that says "Jamul - Haven in the Hills", let's keep it that way for all.

I31-3

Environmental impacts are a big issue.

- There are no public sewer systems or city provided water in this rural area. The casino will need to increase the size of their sewage treatment to handle the 200+ room hotel, 1500 occupancy event venue, in addition to what they already have in the casino. The treated sewage is dumped into the Willow Creek bed. Most of us in this rural area use the groundwater and have wells for our water use. It is disgusting thinking about that quantity of sewage water being dumped into the creek to drain down into our water table for our wells. The increased water usage coming from our water table, especially since we are in a drought and are asked to conserve water, this increased usage will only drain the natural resources we depend on to live in this area. We must conserve our natural resources, especially water, and large developments such as this should not be approved.
- The excess vehicle smog and gasoline usage with this proposed expansion will be huge. We sit idling in long traffic lines every afternoon just trying to get home. When miles traveled taxes are being discussed, it makes no sense to attract that many people to travel out of the city into the rural areas, idling sitting in long traffic lines to go to a casino is ridiculous. Build in the city where the people already are, not where they have to travel 30 minutes to over an hour to get there.
- The Rancho Jamul and Otay Nature Preserves back up to the casino. The casino is over built for their property size. They already have had to put anchors into the preserve for the casino, but are planning on putting more anchors in the nature preserve for the 16 story hotel and 6 story parking garage. They are unable to establish a wildfire mitigation and prevention area around the casino because they have built right up against it, thus putting all the occupants in danger.

I31-4

I31-5

I31-6

I31-7

- The light and noise pollution on the native species (many of which are threatened species) and the local residents have already caused many issues. The noise and light issues will only increase dramatically with the proposed expansion. This runs counter to the County of San Diego Dark Skies and glare light pollution ordinance.

131-8

The relationship between the Jamul community and the Jamul band of Indians has been more adversarial since the building of the casino in 2016. The Jamul band of Indians has purchased the Barrett Ranch House that includes 185 acres that includes the historic 1891 two-story Victorian farmhouse in **Jamul** that has been abandoned for years. Therefore, the casino projected expansion is not the only plan for income for this 5 member band of Indians. It would be nice if the Jamul band of Indians would restore these buildings to their former glory and use as a community center and perhaps make a portion of this 185 acre property a community park for families and children to use as a goodwill gesture in addition to their plans for this property would go a long way toward helping the community instead of negatively impacting the area. Perhaps an addendum to the Indian Business Plan would include the restoration of the Simpsons Nursery and operation as a business for income instead of gambling. There are many funding assistance programs available to Indian organizations and these would be welcome additions to our rural community.

131-9

131-10

The Jamul Casino gave alternatives A, B and C. Alternative C being "No - Project Alternative" which is the only logical solution. The Jamul Casino TEIR has failed to provide definitive information or date for the expansion of the casino site, but it has been mentioned that it will begin next month, this December 2022. **Please expedite this request to not approve and stop this proposed expansion.**

131-11

Thank you,
Chris Olsen
colsen2@cox.net

NATURE PRESERVE



Community input for proposed Casino expansion



Mon 11/14/2022 4:24 PM

From: "Tom C."

To: Admin@jamulteir.com

Hello-

My wife and I have been Jamul residents since 1978.

One of the reasons the Otay Ranch development was rejected was because of the inadequate wildfire evacuation plans submitted with the development.

The new proposed casino expansion will bring up to an additional 225 cars (and possibly twice that many people) who will have to be quickly evacuated (along with existing clientele and employees) should a serious wildfire erupt in our area of East county. Highway 94 will be clogged with evacuees who will be in cars, cars with horse trailers, and RVs trying to make a speedy and safe evacuation. The two lane highway 94 is not built to deal with that many cars in a panicked situation.

The casino expansion should be tied to the casino paying to improve Highway 94 to allow for a better flow of traffic in extreme situations.

Thank you,

Tom and Robin Christ
18188 West Boundary Truck Trail
Jamul, CA 91935

November 14, 2022

Jamul Indian Village of California
Attn: Erica M Pinto
PO Box 612
Jamul, CA 91935

RE: TEIR and Public & Public Comment

We are writing to you today to voice our concerns about the projected expansion of the Jamul Casino. We have so many concerns regarding this issue, however, we will keep our comments to the most important ones. We have lived in Jamul for over 60 years, and have watched it change and grow and have recently seen a very drastic change for the worse. It saddens our hearts to see what is happening to our home town.

Any expansion of the Casino, which would include a hotel and more parking spaces is a bad idea. The traffic in and out of the Casino is onto Hwy 94 that has an F rating. The current traffic on Hwy 94 is horrible at all times of the day and night. We are not saying that all of this is because of the Casino, because it is not. However, by adding those extra cars for the patrons to come to the casino, is not something that this road can handle. There are daily traffic collisions on Hwy 94, and this is only going to increase by the added traffic to the hotel. We live within $\frac{1}{4}$ mile of the casino, and my cross street is Hwy 94. We have seen such a huge increase in traffic trying to get out of our street and back onto our street. We have personally watched people drive our two lane, country road, at night and they were terrified at every bend in the road they hit their brakes and slowed down, because they are not used to driving this country back road.

Our next big concern is the environmental issues that this expansion will bring to Jamul. The current casino already has a complete disregard for the light pollution and the noise pollution that happens on a nightly basis. Weekends are so loud and way beyond the normal 10PM that we are accustomed to. The land that butts up to the casino is a protected reserve that has already be encroached on, without permission from the Federal Government. To hold this building up there were supports drilled into the protected land to help stabilize the building. By an expansion of much greater weight, there will have to be some sort of structure support much bigger than the previous one. This cannot happen on that adjacent land, that is Federally protected.

Our next concern is the sewage treatment plan that is slated for this project. I am sure you are aware that there is no sewage out in this part of San Diego County. We are all on septic tanks. We all comply by the rules and regulations to help keep our streambed and lands, clean of sewage so that we protect the water that runs down to Otay Lakes. This cannot be overlooked as this is unacceptable to think that they can handle the extra use of facilities and what that will produce with an added hotel.

Last but clearly not the least, is the added crime that has now exploded into our community. The casino attracts many people who don't care about this community like we do. There is a large homeless population that has sprung up close to the casino, directly adjacent to the casino which has been breaking into houses, cars and stealing things from our neighbors. This has happened because of the casino. There is a very limited patrolling of Sheriff staffing for our community, and this is a huge concern for me. If we are to be good neighbors with the casino, they need to be respectful of our needs for a safe and secure environment, without the worry and threat of that being stripped away from us. Our way of life is at stake here.

In conclusion, we are absolutely against this TEIR that has been drafted. It is flawed and there is a lot of misinformation in it. Jamul is a small country town that values family, and community. It is very hard to watch it deteriorating every day.

Very Sincerely Yours,

Cyndy & Pete Hoffmann

Cyndy & Pete Hoffmann
Hillside Dr
Jamul, CA 91935

FILE:
Jamul Planning Group

Comments Re: NOC for the Jamul Casino Hotel and Event Center Project



Mon 11/14/2022 10:18 AM

From: Jesse Jones-Pittman

To: Admin@jamulteir.com

To Whom It May Concern:

My name is Jesse Jones-Pittman and I am a resident of Jamul in East San Diego County. I am writing this letter after attending last Thursday (11/3/22), evening's public meeting held by the Jamul Dulzura Community Planning Group (JDCPG), which has formed a Sub-Committee to review the Tribal Environmental Impact Report (TEIR), for the Jamul Casino Hotel and Event Center Expansion Project.

The Jamul Indian Village has never been honest and forthcoming with their intent to build a casino in the first place. They have never addressed the community's concerns with regards to the increase in traffic to State Route 94, especially during emergency evacuation orders due to wildland fires, light and sound pollution to this rural area, and the kind of criminal activities a gambling establishment is likely to attract.

Now they are proposing to add a 16-floor, 225 room hotel, a 1500 seat event center and a 450 seat bingo hall, all while claiming that there will be no further impact to the residents of Jamul. Construction on this project is planned to begin next month after withholding the TEIR from the JDCPG since its completion in May of this year, giving the community less than two weeks before the end of the public comment period on November 14, 2022. If that's not underhanded and dishonest, I don't know what is.

I am requesting that some sort of hold be put on the project to allow for more time to study the potential impacts to traffic, access of emergency response personnel and egress of residents and casino patrons in case of emergency evacuation orders, light and sound pollution to this otherwise dark and quiet area, and for the return of a report on the types and incidence of crimes in the area since the opening of the casino, which has been submitted to the San Diego County Sheriff's Department by one of the committee members.

Thank you for your time and I look forward to hearing from you soon.

Sincerely,

Jesse Jones-Pittman

2878 Pioneer Way

Jamul, CA 91935

Jamul Casino Hotel and Event Center Project

Mon 11/14/2022 12:22 PM

From: Roy Lozano

To: "Admin@JamulTEIR.com"

Cc: Roy Lozano



Chairwoman Erica M. Pinto,

As a resident of Jamul California, my family of eight and I totally disagree with the construction of the Jamul Casino Hotel and Event Center Project. Although there are multiple areas of concern we consider the following to be the most critical.

Campo Road (State Route 94) is a two lane rural highway with a current rating by Caltrans at the lowest possible level of an F. This road is narrow with many curves and turns and is a dangerous rural highway. In recent years and with the addition of the Jamul Casino, the traffic on Campo Road has grown exponentially although the rural highway itself has not been significantly improved. Campo Road is the location of many serious accidents that often times keeps the rural highway closed for multiple hours which strands and significantly limits ingress and egress to both residents and visitors alike. The accidents on Campo Road vary from simple “fender-benders” to serious collisions with fatalities and often include DUI’s along with highspeed pursuits by local law enforcement, including by the US Border Patrol from their near-by station located along Campo Road between Jamul and Dulzura, one of which I personally witnessed a few days ago when the fleeing vehicle passed me illegally at roughly 90 MPH in the opposite lane of traffic. The increase of traffic in adding a 250 room hotel, a 465 seat bingo hall and a 1,500 seat event center would be catastrophic to the already congested and dangerous Campo Road. For this reason alone, this project should not be allowed to be constructed.

Another extremely important issue for us local California residents that live in Jamul is that we live in a “Very High” and “Severe” Wildland Fire Area as identified by CAL FIRE and the San Diego County Fire Authority. If the Jamul Casino Hotel and Event Center Project would be built and if a local wildland fire erupted, patrons and employees from the Jamul Casino, Hotel and Event Center would exit the facility and attempt to egress from the area and would flood Campo Road, which is only a two lane rural highway. With this increased vehicular traffic along with the local residents and those resident that live in more rural areas also attempting to egress the area, this would invariably cause Campo Road to be bottlenecked and congested beyond measure thereby resulting in an extremely unsafe and dangerous evacuation condition and could even result with evacuees being trapped and stranded on the rural highway which could result in what happened in the Paradise Fire. As I am sure you are aware, wildland fires are often explosive and dangerous with little to no warning and when high winds are present, wildland fires are devastating and disastrous events. Another factor to consider is that Jamul and the surrounding areas are rural and many residents would also evacuate their animals (horses, cows, goats, llamas, chickens, dogs, cats, etc.) which would cause additional congestion to the already impacted Campo Road.

In addition and equally important matter of concern is access for emergency services for the community of Jamul and those communities located beyond that require access through Campo Road (e.g. Dulzura). Emergency vehicles already have a difficult time accessing the already impacted rural highway, which causes delays and increased

Casino Hotel and Event Center Project proceeds then this will increase the traffic burden significantly thereby causing additional delays and increased response times not only for routine emergencies but also for wildland fire events.

Another major concern is for the safety of Jamul community itself. Since the Jamul Casino opened, the surrounding areas, especially along Campo Road, have been negatively impacted with homeless camps, thefts, prostitution, break-ins, abandoned vehicles, illegally parked vehicles on the shoulder and significant amounts of trash and debris left the rural highway. Currently the area of Jamul has only one San Diego County Sheriff covering this community and Jamul Casino Hotel and Event Center Project would add burden to the entire area.

For all of the reasons listed above the Jamul Casino Hotel and Event Center Project should not be constructed. In addition, when you also consider the other detrimental factors that this project would cause (additional noise, additional lighting, impacts to the adjacent San Diego National Wildlife Refuge) this project should not be constructed.

Please feel free to contact me to discuss further.

Thank you,

Roy Lozano

2795 Chamise Way

Jamul, CA 91935

Jamul Indian Village proposed new hotel and remodel



Mon 11/14/2022 3:39 PM

From: "Minou D. Spradley"

To: "Admin@jamulteir.com"

Dear Jamul Tribe Neighbors,

I am a 12 year resident of Jamul and 27 year resident of San Diego County. I value and acknowledge the tribe's right to economic prosperity and development of the property that the tribe owns. However, I am not in support of the project described in the TEIR and vote for option C. I am in full support of the arguments the Sierra Club has presented to the tribe and the county in opposition to this project. I can already see the Casino from my living room window. Not only that, I can also hear the base line of the music that is played during the events. We moved here to Jamul from Pacific Beach, a much noisier neighborhood. Sound and light pollution negatively affect our quality of life here in Jamul. We much rather hear the coyotes, and owls every night rather than a thumping base and glaring lights of a 16 or 12 story hotel that completely destroys our view and lowers our property value. As it stands, already the casino is the most prominent view from my house, especially at night when the lights go on. Disregarding all other issues with this project, which are thoroughly described by The Sierra Club, the traffic impact that not only affects our ability to get to and from our home on a daily basis, in addition to the disaster that will be imminent during wild fire evacuations, is of the utmost concern to me. My neighbors have animals as large as horses and llamas and as small as chickens and rabbits along with dogs and cats. I cannot imagine trying to evacuate large animals along with hotel guests using the roads we currently have. People and animals will loose their lives.

Again, I vote for option C of the proposed TEIR. I believe this is the only option for the residents of Jamul. Thank you for the opportunity to give feedback. I hope that the Jamul Indian Village will be willing to work with its neighbors to come to a resolution that will allow the tribe to continue its economic prosperity while safe guarding the lives and quality of life of the community. Seeing you at the community planning meetings and hearing from you would be amazing.

Best Regards,

Minou Djawdan Spradley Ph.D.

Via Email

Admin@JamulTEIR.com

Attn: Chairwoman Erica M. Pinto

To Whom It May Concern,

Regrettably, the proposed expansion of the casino in Jamul, including a multi-story hotel and a 1500 seat event venue, shows obvious bad faith toward Jamul and the backcountry communities. We know that the County had notification of your proposed expansion on May 22, 2022. Unfortunately, the Jamul Dulzura Community Planning Group was not informed of the proposal until October 6, 2022. This was six days after the Tribal Environmental Report was released.

137-1

The TEIR has a total of 674 pages. It also noticed that the comment period is dated to begin on September 30 and end on November 14th. The community has been given a short time frame to review and comment on such a huge variety of complex and critical issues. The TEIR is also vague, lacks updated data and fails to address offsite issues.

In review of the original building of the casino, the casino agreed to establish a Memorandum of Understanding with the County of San Diego to offset impacts due to the casino. It is apparent that the casino has yet to fulfill their obligations in the MOU.

137-2

We support the NO PROJECT ALTERNATIVE.

There are so many areas of concern in this proposed expansion and the following are not ranked in importance. Each area has significant and unmitigable issues.

TRAFFIC:

SR94 has a current rating by Caltrans at it's lowest level F. This State highway is a two lane road with minimal shoulders and it is strapped double yellow for almost the entire road. Yet people pass even in curves and straight aways. The number of car trips a day has exploded. In the TEIR the car trips into the casino were done on two consecutive weekends "Thursday through Saturday". Yet there is no data for the cumulative impacts. The accidents occur regularly from the turn off Jamacha in Rancho San Diego to Otay Lakes Road. Some are minor, many are major and some are deadly. The increase in traffic generated from the hotel and event center could be catastrophic if built. The TEIR traffic analysis does not address the serious issues today or in the future. It is not sufficient and is inadequate.

137-3

DAMAGE TO THE RANCHO JAMUL ECOLOGICAL RESERVE

Placing a hotel and event center adjacent to the RJER is a disaster. Just the light and noise will deeply impact the wildlife. The other concern is the "120 soil nails" proposal that the TEIR is saying they will use for the construction offsite on the Reserve. How can you say no "off reservation" land use policy is required? There appears that no effort has been made or evaluated concerning all the impacts to the sensitive and protected wildlife. The other issue is the waste water treatment facility adjacent to the Reserve and the creek that crosses the casino by the facility and on to the Reserve.

137-4

EMERGENCY SERVICES AND SAFETY

Living in a rural area, emergency services are extremely important. Since the casino has been opened, the traffic especially on "event" days at the casino, can be impacted to the point of a stand still for hours. What usually takes 10-15 minutes from Jamacha Rd. in Rancho San Diego to Lyons Valley Rd. in Jamul, can be up to one hour to drive the 5 miles. Serious car accidents can stop the traffic flow for multiple hours. Emergency responders are delayed and often have had to drive on the shoulder of the road or try to transvers the middle of the road to get to an accident.

137-5

With the opening of the casino, the community has seen an increase in homeless along the 94 corridor. Areas in proximity to the casino have been impacted by the homeless, thefts, break-ins abandoned cars, RVs with prostitutes at night fires in the brush, nightly noise and unbelievable amounts of trash. Neighbors no longer feel safe. Expansion of the casino will only lead to additional impacts.

137-6

SEVERE WILDLAND FIRE AREA AND EVACUATIONS

Wildland fires can be explosive, out of control with high winds, shifting continuously, leading to a disastrous event. SR 94 is a two lane dangerous highway without people trying to evacuate. If a hotel and event venue go in and a wildland fire begins the likelihood of a catastrophic incident will occur. Numbers of casino patrons would flee flooding on to SR 94 causing a bottleneck further endangering lives. Being a rural area many residents will flee with their horses, live stock and other animal, increasing the traffic exponentially The congestion of an evacuation will also slow the responder's time to reach the endangered area. Worst scenario would be that evacuees would be trapped along the SR 94 corridor trying to escape like the Paradise Fire in Northern California. The TEIR has ignored the fact that SR 94 continues through additional wildland fire areas.

137-7

PROPOSED CONSTRUCTION EXPANSION

The TEIR is lacking in dealing with the allowing construction to work six days a week. When the casino was built the on and off site work did not take into consideration of the impacts to the community and to the road stoppages on SR 94. The road stoppages often lasted up to 45 hours or more. The stoppages went on for months and months. There was a total disregard toward the public. People were stopped in their vehicles making them late to work, to medical appointments, deliveries and family events. Our school children sat on buses making them late to school or home. It is important to consider the community and others who use SR 94.

137-8

OTHER IMPACTS INCLUDE: NOISE, LIGHT POLLUTION, WATER POLLUTION, VISUAL AESTHETICS, THE RANCHO JAMUL ECOLOGICAL RESERVE, THE MEMORANDUM OF UNDERSTAND WITH THE COUNTY

137-9

We believe there are too many unaddressed, lack of research, data and ignored impacts to this proposed project. We also believe that this project should not go forward due to all the issues.

NO PROJECT ALTERNATIVE.

Regards,



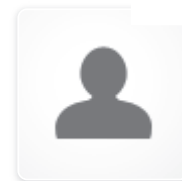
Michael & Marcia Spurgeon

No expansion of Casino!

Mon 11/14/2022 1:24 PM

From: CORAL THUET

To: Admin@JamulTEIR.com



Sent from my iPhone

Begin forwarded message:

From Coral Thuet

Coralsings@aol.com

Jamul resident

Dear Chairwoman Erica Pinto:

Please don't approve the hotel and expansion of the Jamul Casino. The traffic is really bad getting out and into Jamul. Too many accidents occur and there is increased crime. It is unbelievable that after so many years of fighting the construction, now an expansion is being considered including building a high rise! That was one of the adjustments that was made when the casino was built. A high rise was being proposed back then and it was negotiated to build a smaller project. Please consider the community that does not want this. I am concerned about the environment, additional traffic, more crimes, accidents, alcohol and drugs, theft and fire safety. I am extremely concerned about getting out of Jamul during the next fire. Campo road is the only exit for most of us. This expansion would be unfair and dangerous for all of us who live here. It would also be an eyesore in our beautiful peaceful valley. Please consider us, not the investors who would be making millions off of the back of Jamul's hard working community. It is not fair.

Thank you.

Coral Thuet

Jamul Resident

Sent from my iPhone

Proposed expansion

Mon 11/14/2022 10:33 AM

From: "Rolf Trautwein"

To: admin@jamulTEIR.com



Jamul Indian Village,

I am a neighbor, like yourself, who respects the land, the wildlife, and the people of our community, however the proposed expansion of the 16 story hotel and the 1500 seat capacity arena will negatively impact the surrounding community. I live two miles from the casino and last evening heard significant noise emanating in my neighborhood. In addition to affecting our neighborhood, the Jamul Ecological Wildlife Preserve will also be impacted negatively by light and noise pollution. The Preserve is home to a myriad of wildlife and endangered species that may go extinct due to the proposed expansion. There are also no proposed road improvements scheduled that would ease traffic, surely to increase with biweekly events that accommodate loud noise and a severe increase in traffic. In the event of an emergency such as a wildfire evacuation, everyone's ability to escape safely will be limited due to a lack of road expansion or safety measures. Also, the Casino has brought crime, homeless encampments and prostitution to our neighbor that was clearly not evident in Jamul prior to the casino being built. I would recommend consulting with Caltrans to alleviate such a problem. The US government has had many broken promises to Native Americans, please be a good neighbor and do not break promises that impact our community, our land, our wildlife and our people that must live together in harmony and spirit of nature.

Thank You,

Rolf Trautwein

Law Offices
Webb & Carey
 A Professional Corporation
402 West Broadway, Suite 400
San Diego, California 92101
 TEL(619) 236-1650
 FAX(619) 236-1283
pwebb@webbcarey.com

November 5, 2022

Board of Supervisors
 1600 Pacific Highway
 Room 335
 San Diego, California 92101

Jamul Dulzura Community Planning Group
 P.O. Box 613
 Jamul, California 91935

Re: Proposed Jamul Casino Hotel Expansion Project
 Soil Nails Violation of the Native American Grave Protection Act and
 Indian Gaming Regulatory Act

Dear Board and Planning Group Members:

As many of you know, Webb & Carey APC represents the Walter Rosales and Karen Toggery families in their continuing claims arising from the desecration of their families' human remains and funerary objects when they were illegally disinterred, trucked and dumped during construction of the Jamul Casino. Now the casino interests propose further desecration to the Jamul Cemetery itself. Therefore, we hereby demand on behalf of our clients that the Board and the Planning Group prevent the further illegal desecration now proposed on the cemetery property, by enforcing the federal and state Native American Grave Protection Act (NAGPRA) statutes.

The Jamul cemetery is over 100 years old, and occupies .85 acres of fee simple land immediately to the west of the existing Jamul Casino. Contrary to County Planner Scott Christman's comments during a recent subcommittee meeting of the Planning Group, this land remains subject to both the federal and state NAGPRA statutes.

On July 2, 1965, the Secretary of the Interior adopted the following Secretarial Order providing that all of California's laws governing the Jamul cemetery continue to be applicable to the cemetery, since the Catholic Church transferred the property to the Jamul Village. Therein the Order provides:

Pursuant to § 1.4(b) , Title 25, Code of Federal Regulations (30 F.R. 7520), the **Secretary of the Interior does hereby adopt and make applicable**, subject to the conditions hereinafter provided, **all of the laws, ordinances, codes**,

I40-1

resolutions, rules or other regulations of **the State of California**, now existing or as they may be amended or enacted in the future, limiting, zoning, or otherwise **governing**, regulating, or controlling the use or development of **any real or personal property**, including water rights, leased from or held or used under agreement with and **belonging to any Indian or Indian tribe, band, or community that is held in trust by the United States** or is subject to a restriction against alienation imposed by the United States and located within the State of California. (emphasis added) 30 F.R. 8722.

This is the same jurisdiction California exercises over the disinterment, excavation, and desecration of a veteran's remains at any National Cemetery owned and operated by the federal government in California. Such criminal conduct, which causes injury, is subject to California's jurisdiction under Public Law 280, 18 U.S.C. §§1151, 1162, 1964, 28 U.S.C. §1360, and the DOI July 2, 1965 Secretarial Order, and is deemed to be the proximate cause of civil injury. *Koepke v. Loo*, 18 Cal.App.4th 1444, 1449 (1993).

The Jamul Casino Hotel Expansion Project proposes that 120 soil nails, 35 feet long, and 4 inches in diameter be driven into the Rancho Jamul Ecological Reserve and the .85 acre cemetery fee parcel to the south and west of the proposed hotel and parking structure. See, fig. 2-5 on page 2-12 of the TEIR.

Violation of federal and state Native American Grave Protection Acts

The drilling for installation of these nails will illegally desecrate the families' remains at the cemetery in violation of the federal and state NAGPRA statutes, including 25 U.S.C. §§3001, 3002, 3009 and 3013 and its regulations, 43 C.F.R. §§10.1(b)(1), 10.3(a), (b), 10.4(d)(1)(v), 10.5(e) 10.8-10.15, and the following Health & Safety Code (HSC) and Public Resources Code (PRC) sections:

HSC §§7050.5, 7052, prohibiting mutilation, unlawful excavation and removal of remains;

HSC §7054, requiring proper disposition of remains in a cemetery;

HSC §§7054.6, 7054.7, 7055, and 103060 prohibiting removal without the descendants' consent and proper permits;

HSC §7054.7, prohibiting commingling of remains;

HSC §7500, prohibiting removal of remains without an order from the superior court or the public health department;

I40-1
cont.

HSC §§8011, and 8015-16, requiring repatriation upon demand;

HSC §8301.5, by allowing graves not to be kept, tended, adorned, and embellished, according to the beliefs of the decedents' families;

HSC §8580, when property dedicated to cemetery purposes is not used exclusively for cemetery purposes, and there has been no removal of the dedication by the Superior Court;

PRC §5097.5, when remains and objects are wrongfully excavated from their historic burial grounds;

PRC §5097.7, when vehicles and equipment used to unlawfully excavate remains from their historic burial grounds are not forfeited;

PRC §5097.9, when the descendants free exercise of their religious burial rights are interfered with, and their sanctified cemetery, place of worship, religious and ceremonial site is damaged, and there is no compelling government interest therefore, nor the use of the least restrictive means of furthering such an interest;

PRC §5097.94(k), when failing to mediate the treatment and disposition of the families' remains, and failing to protect them from destruction and provide for their sensitive treatment and disposition;

PRC §5097.97, when failing to investigate claims that the sanctified cemetery, place of worship, religious and ceremonial site, is being irreparably damaged;

PRC §5097.98, and 14 C.C.R. §15064.5, when (1) failing to treat remains with generally accepted cultural or archaeological standards and practices, and (2) failing to confer with the lineal descendants as to the disposition of the remains, as required by the National Center for Cultural Resources and the National N.A.G.P.R.A. Program Guidelines;

PRC §5097.98(e)(f), when failing to contact the coroner and the N.A.H.C., and remains are not re-interred with proper dignity;

P.R.C. §5097.99, when remains were removed from their graves without an agreement for proper disposition with dignity;

PRC §5097.991, when failing to repatriate remains;

I40-1
cont.

PRC §5097.993, when Appellants' remains were unlawfully excavated and removed from their burial sites without paying a \$50,000 fine for each violation; and

PRC §§5097.9-5097.99, and Cal. Penal Code §622.5, when the remains are unlawfully and willfully injured, disfigured, and destroyed.

See for e.g., *Quechan Indian Tribe v. United States*, 535 F.Supp.2d 1072, 1100-08, 1109-10, 1117-23 (S.D. Cal. 2008), finding the government liable for *per se* negligence in allowing similar desecration of Quechen artifacts in violation of both federal and state NAGPRA statutes.

I40-1
cont.

Violation of the Indian Gaming Regulatory Act

In addition to violating federal and state NAGPRA statutes, the installation of the soil nails on fee land that the Village admits at page 41 of 212 of the TEIR is not on land that qualifies for such facilities, will also violate the Indian Gaming Regulatory Act (IGRA), 25 U.S.C. 2710 et seq., in that the nails are ancillary support facilities that provide the very "structural integrity" of the proposed hotel and parking facilities that "lodge people and permit them to gamble." *Pauma v. Nat'l Labor Relations Bd.*, 888 F.3d 1066, 1083 (9th Cir. 2018), finding "a hotel-casino's main function is to lodge people and permit them to gamble."

Class III gaming activities and all ancillary and support facilities "directly related to the operation of gaming activities," including, but not limited to, hotel, parking, and the soil nails that provide their structural integrity, are prohibited on fee land in California. 25 U.S.C. 2710(d) (3) (c)(vii); *Michigan v. Bay Mills Indian Community*, 134 S.Ct. 2024 (2014). Paragraph 2.8 of the Village Compact with the State provides: "Gaming Facility" or "Facility" means...all rooms, buildings, and areas, including hotels, parking lots, and walkways, a principal purpose of which is to serve the activities of the Gaming Operation and Facility..." See also, *Flandreau Santee Sioux Tribe v. Noem*, 938 F.3d 928, 934-35 (8th Cir. 2019), finding "the Casino's gift shop, hotel, RV park, food and beverage services, and live entertainment events would not exist but for the Casino, nor could the Casino operate without the existence of these amenities. Therefore, the amenities 'are directly related to the operation of gaming activities;'" *Yavapai-Prescott Indian Tribe v. Scott*, 117 F.3d 1107, 1114 (9th Cir. 1997), finding "the Hotel and casino are one and the same because the Hotel and the casino are closely interrelated. The Hotel advertises the casino to attract customers both for lodging and for meals;" and *New York v. Shinnecock Indian Nation*, 523 F. Supp. 2d 185, 223 (E.D.N.Y. 2007), finding "the operation of a gaming casino and related commercial structures and activities, such as hotels, restaurants, and retail stores" were not "permitted" on fee land in New York.

I40-2

Hence, the 120 soil nails proposed to be driven into the Rancho Jamul Ecological Reserve and the .85 acre cemetery fee parcel to the south and west of the proposed hotel and parking structure, are prohibited on such fee land in California. See, fig. 2-5 on page 42 of 212 of the TEIR.

Therefore, our clients demand that the Board and the Planning Group take all appropriate measures to prevent the further illegal desecration of their families' remains, now proposed on the Jamul cemetery property, by enforcing the federal and state NAGPRA and IGRA statutes, with which the Village interests explicitly agreed to comply and for which they further agreed that the County and Sheriff shall have jurisdiction of all offenses in violation thereof, pursuant to 18 U.S.C. section 1162, as specified in the County's 2016 Memorandum of Understanding (MOU), which also requires all work within 50 feet of cultural resources, including, but not limited to human remains and funerary objects, to be halted until there is compliance with the federal and state NAGPRA statutes. The Village interests further agreed in Section 10.8.2 of the original State Compact to make "good faith efforts to mitigate any and all such significant adverse off-Reservation impacts of the Project," and in Section 12.3(e) of the amended Compact, to comply with "the applicable federal law regarding public health and safety," which provides for the 1965 Secretarial Order making all of the laws, ordinances and codes of California applicable to any real or personal property belonging to any Indian, Indian tribe, band, or community in California, as set forth above.

Sincerely,
/s/Patrick D. Webb
Patrick D. Webb
Attorneys for the Rosales and
Toggerly Families

I40-2
cont.

Appendix N
Biological Survey Reports

Appendix N-1

Biological Survey of 4-Acre Parcel



Technical Memo: Reconnaissance-Level Biological Survey of the 4-acre Parcel, Jamul Indian Village, Jamul, California

INTRODUCTION

A reconnaissance-level biological survey was performed for the proposed use of the 4-acre parcel for construction laydown and staging for the new hotel project. The "4-acre Parcel" (APN 597-060-04) has an address of 14145 Highway 94, Jamul, CA, and is located just south of the town of Jamul, San Diego County, California (Figure 1.1). The private roadway "Daisy Drive" runs through the middle of the 4-acre parcel.

RESULTS

Dr. G.O. Graening performed the biological survey on October 14, 2022. Weather conditions were cool and overcast. Survey efforts emphasized the search for any listed species or special-status species that had documented occurrences, in databases queried, within the parcel or vicinity. Habitats were also mapped.

No listed species or special-status species were detected during this field survey. The 4-acre parcel contains primarily ruderal and urbanized habitats (see Exhibit). The portion of the property southeast of Daisy Drive is regenerating coastal scrub.

CONCLUSIONS AND RECOMMENDATIONS

No federally-listed species or other special-status species were detected during this pre-construction survey. Listed species are unlikely to occur within the 4-acre parcel because of the lack of suitable habitat and the presence of light and noise from roadway traffic and other human activities.

Note that numerous biological resource assessments, protocol surveys, wetland delineations, and other types of studies were previously performed on the 4-acre parcel from 2011 to 2016 for the assessment of the casino project and the State Route 94 improvement project. None of these assessments detected any listed species or jurisdictional water resources.

FROM:

A handwritten signature in black ink, appearing to read "G. O. Graening", with a stylized flourish at the end.

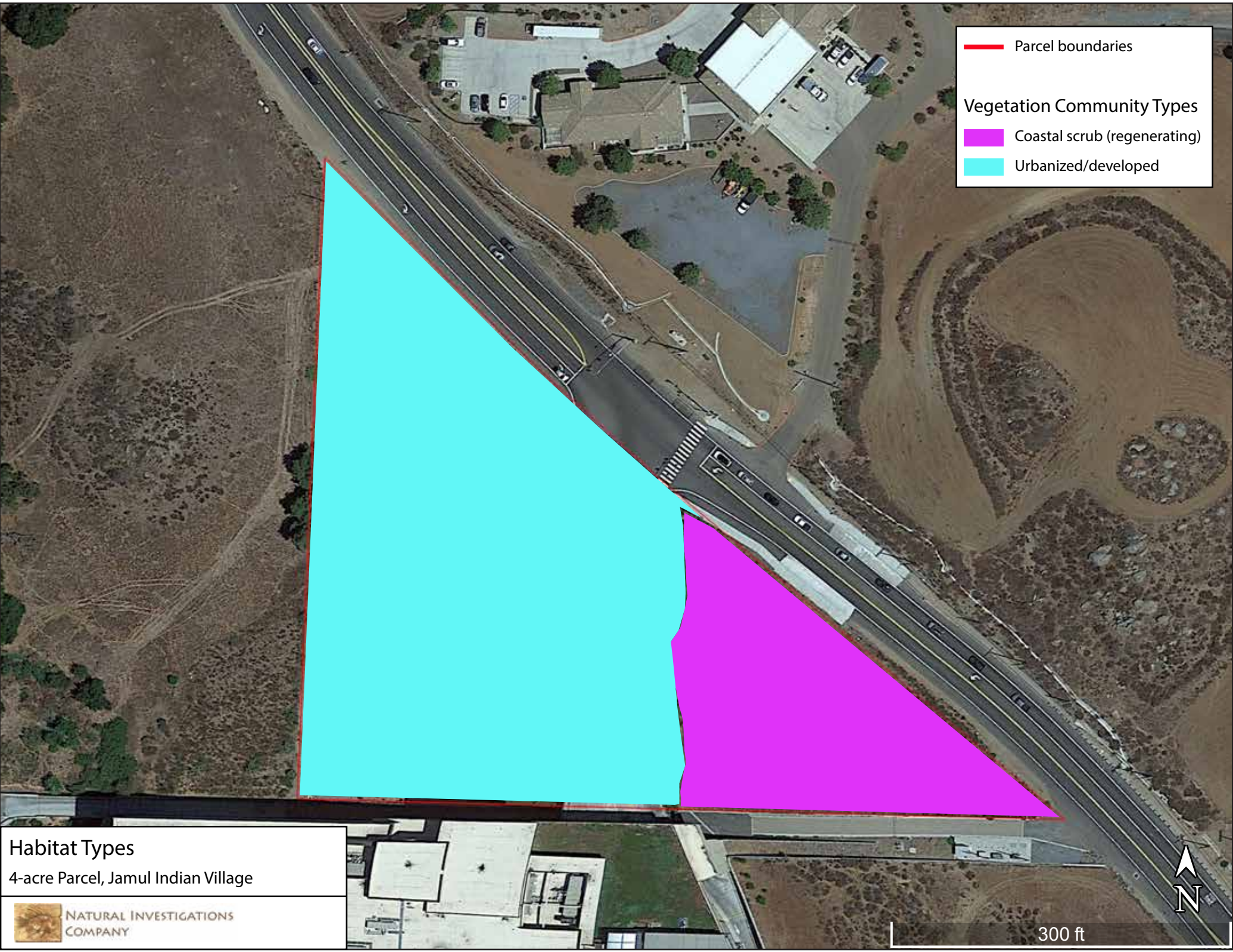
G. O. Graening, PhD, MSE

MAPS

Parcel boundaries

Vegetation Community Types

- Coastal scrub (regenerating)
- Urbanized/developed



Habitat Types
4-acre Parcel, Jamul Indian Village



300 ft



SITE PHOTOS









Appendix N-2

Biological Survey of Soil Nail
Easement Area



SUBJECT:

Technical Memo: Pre-construction Biological Survey for the Soil Nail Project / Jamul Indian Village

INTRODUCTION

The Jamul Indian Village proposes to use soil nails to secure below-grade walls at the southern boundary of their reservation as part of the larger Casino Hotel Project (see Exhibits). Construction will involve excavation and installation of soils nail starting at depths of approximately 7 feet below grade to a depth of up to 45 feet below grade depending on the surface elevation and slope. The soil nail area is about 175 feet long and the soil nails would encroach under the adjacent property a maximum of 35 feet; this constitutes an area of about 6,200 square feet (the survey area). The property is owned by CDFW and managed as the Rancho Jamul Ecological Reserve. As part of the environmental compliance process, a pre-construction biological survey was performed. This technical memo documents the findings of the preconstruction survey.

METHODS

Dr. G.O. Graening performed a biological field survey on November 8, 2022. Weather conditions were cold and wet, with a storm just ending. Survey efforts emphasized the search for any special-status species or habitats that had documented occurrences, in databases queried, within the survey area or vicinity. Focal species consisted of least Bell's vireo, coastal California gnatcatcher, southwestern willow flycatcher, arroyo toad, Quino checkerspot butterfly, Hermes copper butterfly, and any rare plants or occupied nests. Field glasses were used to assist in the ocular surveys. Wildlife sign—tracks, feathers and shedding, burrows, scat, etc.—were interpreted to detect species not actually seen. All visible fauna and flora observed were recorded in a field notebook and identified to the appropriate taxon. Where detected, the location of any special-status species was georeferenced with a geographic positioning system receiver with accuracy of 1 meter or better.

ENVIRONMENTAL SETTING

The soil nail project area contains primarily degraded chaparral habitat with non-native grasses and forbs interspersed. Conspicuous plant species consist of tree tobacco (*Nicotiana glauca*), elderberry (*Sambucus*), chamise (*Adenostoma fasciculatum*), laurel sumac (*Malosma laurina*), Mediterranean storksbill (*Erodium malacoides*), and compact brome (*Bromus madritensis*). There are no wetlands or channels in the soil nail project area.

RESULTS OF SURVEY

No nesting bird activity was observed, although the survey was performed outside of the typical nesting season. No special-status plant species were observed, although the survey was performed outside of the floristic season. No special-status animal species were observed. The following animals were detected during the survey: scat of desert cottontail (*Sylvilagus audubonii*); scat of coyote (*Canis latrans*); sand mall rodent burrows (probably *Perognathus*).

CONCLUSIONS AND RECOMMENDATIONS

Installation of the soil nails will not impact any special-status habitats. If construction activities do not commence within the next few weeks, and additional pre-construction survey could be performed to ensure that no special-status species are present. Installation of the soil nails is unlikely to directly impact any special-status species. Although unlikely, noise and vibration could indirectly affect special-status species; mitigation measures have been identified to reduce this potential adverse effect.

FROM:

A handwritten signature in black ink, appearing to read "G. O. Graening", with a stylized flourish at the end.

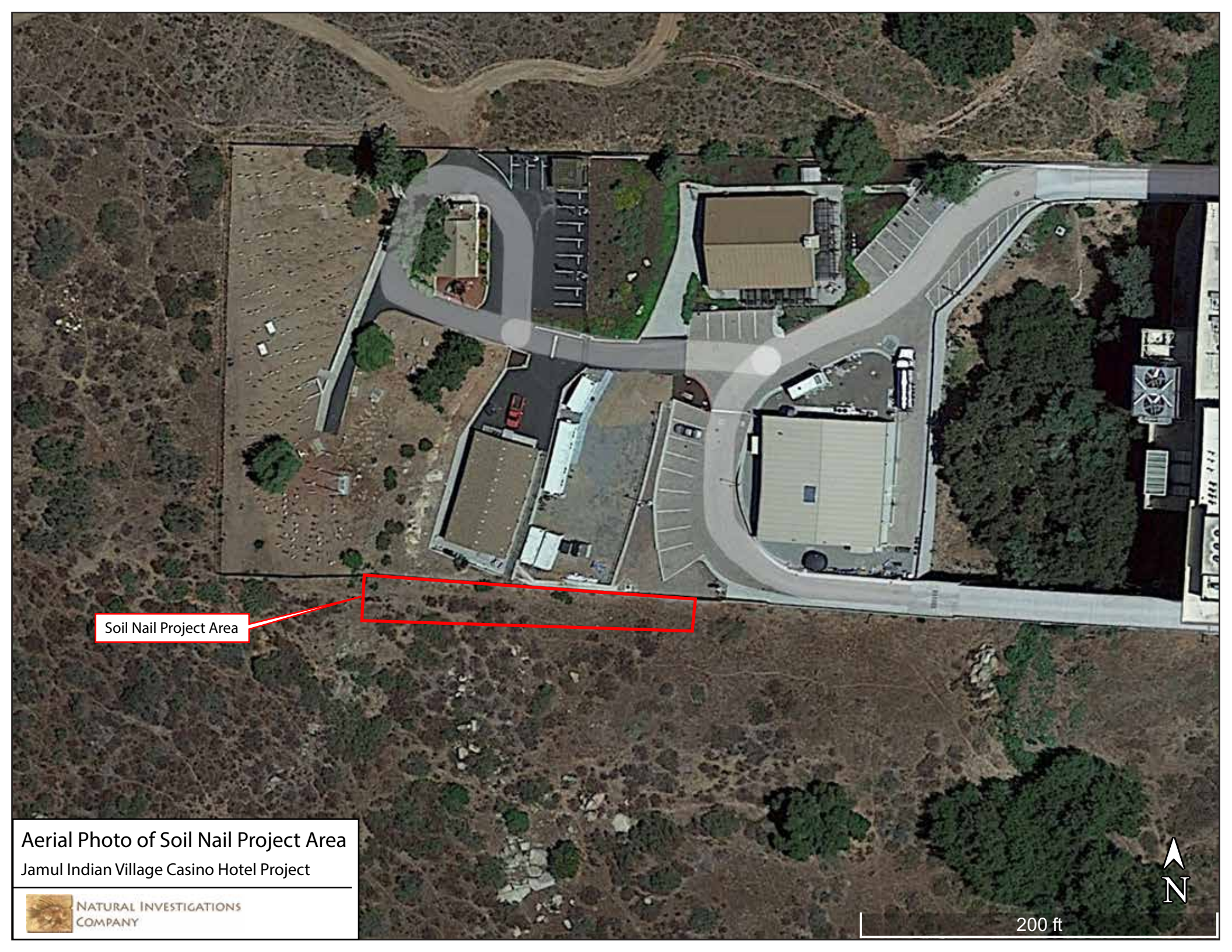
G. O. Graening, PhD, MSE

EXHIBITS



Source: ESRI World Imagery; SanGIS

FIGURE 2-5
SOIL NAILS LOCATIONS



Soil Nail Project Area

Aerial Photo of Soil Nail Project Area
Jamul Indian Village Casino Hotel Project



APPENDIX: SITE PHOTOS



Appendix O

Special Event Traffic Analysis



MEMORANDUM

To: Ryan Sawyer, AICP
Project Director
Acorn Environmental

From: Leonardo Espelet, P.E., T.E.
Whitney DiGiantommaso, P.E.
Kimley-Horn and Associates, Inc.

Date: December 2, 2022

Subject: Jamul Casino Hotel and Event Center Environmental Impact Report (TEIR) –
Special Event Traffic Analysis

This memorandum has been prepared to assist with the preparation of the Jamul Indian Village Tribal Environmental Impact Report (TEIR) in support of the proposed hotel and event center at the existing Jamul Casino. This memorandum includes a summary of the field observations and traffic data collected at the Jamul Casino's main access driveway during typical (i.e., no event) and special event operations.

Traffic Data Collection and Field Observations

Driveway inbound/outbound vehicle counts were collected by National Data and Surveying Services (NDS) at the main Casino access driveway (SR-94 and Daisy Drive) for the following dates in 2022 to compare the actual traffic being generated by the Jamul Casino during typical and special event operations.

- Typical Operations
 - Saturday, April 16
 - Tuesday, April 19 through Saturday, April 23
 - Tuesday, April 26 through Saturday, April 30
- Special Event Operations
 - Saturday, November 5

The Casino Special Event on Saturday, November 5 consisted of a VIP shopping event occurring from 12:00 PM – 6:00 PM on the Casino Rooftop. This event included guests arriving at designated or phased times based on their initial ticket offerings which took place October 29 – November 4. Guests were able to purchase gifts based the number of tickets earned for gifts shipped to the guests later.

During the special event, the on-site parking team continuously monitored the effect of traffic on SR-94 and was ready to deploy the special event parking management plan when needed. Special event parking management measures have been put in place to make sure that special events are not cause of congestion along SR-94. The measures implemented include special parking garage management,

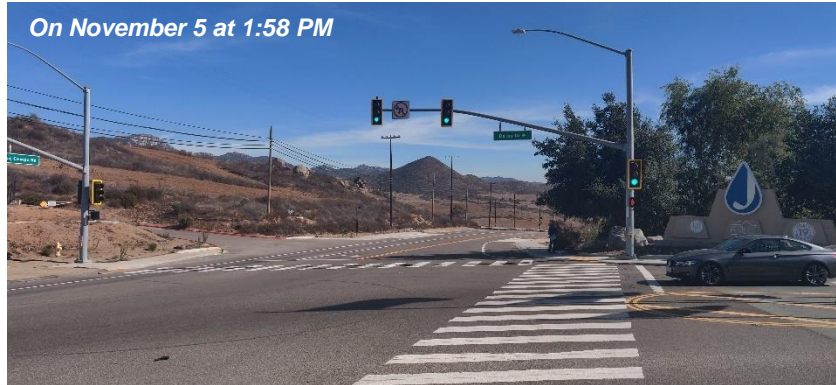
spread of special event starting times, and intentionality on the dates and times the special events are scheduled so not to overlap with other community events and/or activities. These changes implemented by the Casino administration have improved operations and the patron's experience entering and exiting the site significantly. **Attachment A** contains the traffic volume data sheets.

Observations were conducted during the special event to identify any impacts to SR-94 during the ingress of the event. As shown in **Figure 1** and **Figure 2**, there were no impacts to SR-94 during the special event due to the staggered ticket time and parking management measures.

Figure 1: Southbound SR-94 at Daisy Drive



Figure 2: Northbound SR-94 at Daisy Drive



Traffic Data Comparison

Figure 3 and Figure 4 illustrate the comparison of inbound and outbound traffic during typical and special event operations, respectively. The typical (i.e., no event) operations traffic data were averaged among all the Saturdays collected in April. It should be noted that during the special event, the traffic data collection device was damaged for the inbound direction shortly after deployment. However, inbound traffic was calculated using the parking data provided by the Casino that was collected during the special event. Attachment B contains the parking data information.

Figure 4 illustrates that there is nominal change in traffic entering and exiting the Casino during typical and special event operations.

Figure 3: Inbound Traffic Comparison

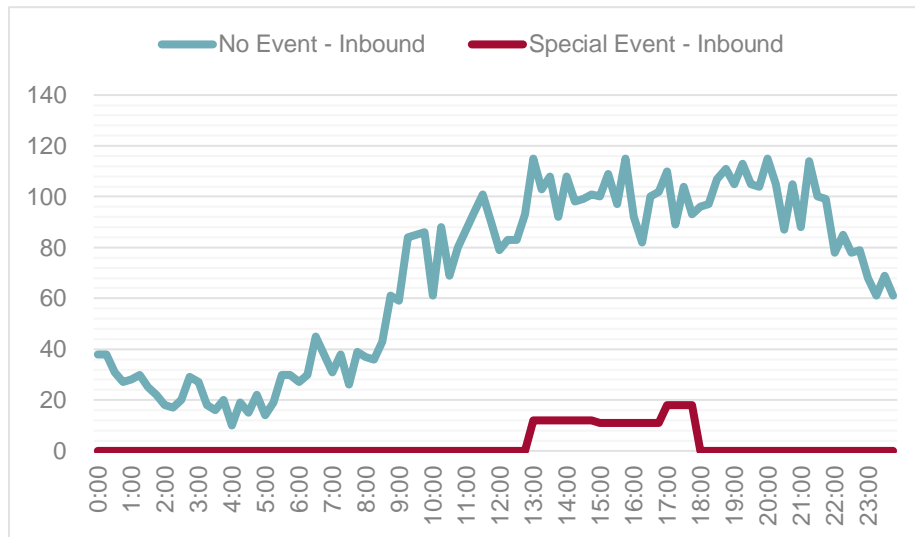
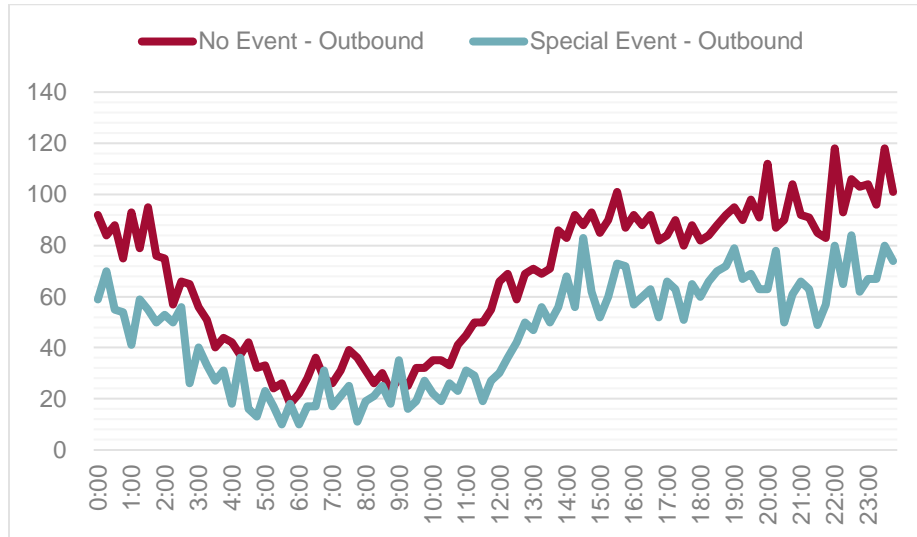


Figure 4: Outbound Traffic Comparison



Conclusion

Casino entrance traffic counts collected show a nominal change in overall Casino traffic generation during the events. The nominal change in traffic volumes did not cause additional congestion on SR-94 and traffic entering the site remained contained within the existing southbound right-turn lane and northbound left-turn lane onto the site. Although special event traffic did not cause congestion on SR-94, the on-site parking team continuously monitored the effect of traffic on SR-94 and was ready to deploy the special event parking management plan described above when needed.

Attachments:

- A – Traffic Data Collection
- B – Special Event Parking Data

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ATTACHMENT A

Traffic Data Collection

VOLUME

14145 Campo Rd Driveway Entrance

Day: Saturday
Date: 4/16/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	6,244	6,244

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	35	35	12:00			0	69	69
0:15			0	34	34	12:15			0	72	72
0:30			0	42	42	12:30			0	73	73
0:45			0	21 132	21 132	12:45			0	83 297	83 297
1:00			0	29	29	13:00			0	104	104
1:15			0	30	30	13:15			0	90	90
1:30			0	19	19	13:30			0	88	88
1:45			0	20 98	20 98	13:45			0	87 369	87 369
2:00			0	19	19	14:00			0	89	89
2:15			0	17	17	14:15			0	83	83
2:30			0	20	20	14:30			0	96	96
2:45			0	28 84	28 84	14:45			0	86 354	86 354
3:00			0	28	28	15:00			0	87	87
3:15			0	18	18	15:15			0	84	84
3:30			0	13	13	15:30			0	101	101
3:45			0	19 78	19 78	15:45			0	109 381	109 381
4:00			0	8	8	16:00			0	78	78
4:15			0	13	13	16:15			0	85	85
4:30			0	21	21	16:30			0	95	95
4:45			0	22 64	22 64	16:45			0	103 361	103 361
5:00			0	13	13	17:00			0	102	102
5:15			0	19	19	17:15			0	92	92
5:30			0	31	31	17:30			0	107	107
5:45			0	34 97	34 97	17:45			0	95 396	95 396
6:00			0	33	33	18:00			0	97	97
6:15			0	35	35	18:15			0	100	100
6:30			0	53	53	18:30			0	105	105
6:45			0	42 163	42 163	18:45			0	120 422	120 422
7:00			0	40	40	19:00			0	118	118
7:15			0	37	37	19:15			0	107	107
7:30			0	22	22	19:30			0	101	101
7:45			0	32 131	32 131	19:45			0	102 428	102 428
8:00			0	37	37	20:00			0	107	107
8:15			0	31	31	20:15			0	105	105
8:30			0	39	39	20:30			0	99	99
8:45			0	60 167	60 167	20:45			0	116 427	116 427
9:00			0	51	51	21:00			0	69	69
9:15			0	96	96	21:15			0	102	102
9:30			0	67	67	21:30			0	88	88
9:45			0	76 290	76 290	21:45			0	103 362	103 362
10:00			0	58	58	22:00			0	72	72
10:15			0	81	81	22:15			0	92	92
10:30			0	44	44	22:30			0	83	83
10:45			0	67 250	67 250	22:45			0	73 320	73 320
11:00			0	86	86	23:00			0	61	61
11:15			0	91	91	23:15			0	68	68
11:30			0	72	72	23:30			0	70	70
11:45			0	70 319	70 319	23:45			0	55 254	55 254
TOTALS				1873	1873	TOTALS				4371	4371
SPLIT %				100.0%	30.0%	SPLIT %				100.0%	70.0%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	6,244	6,244

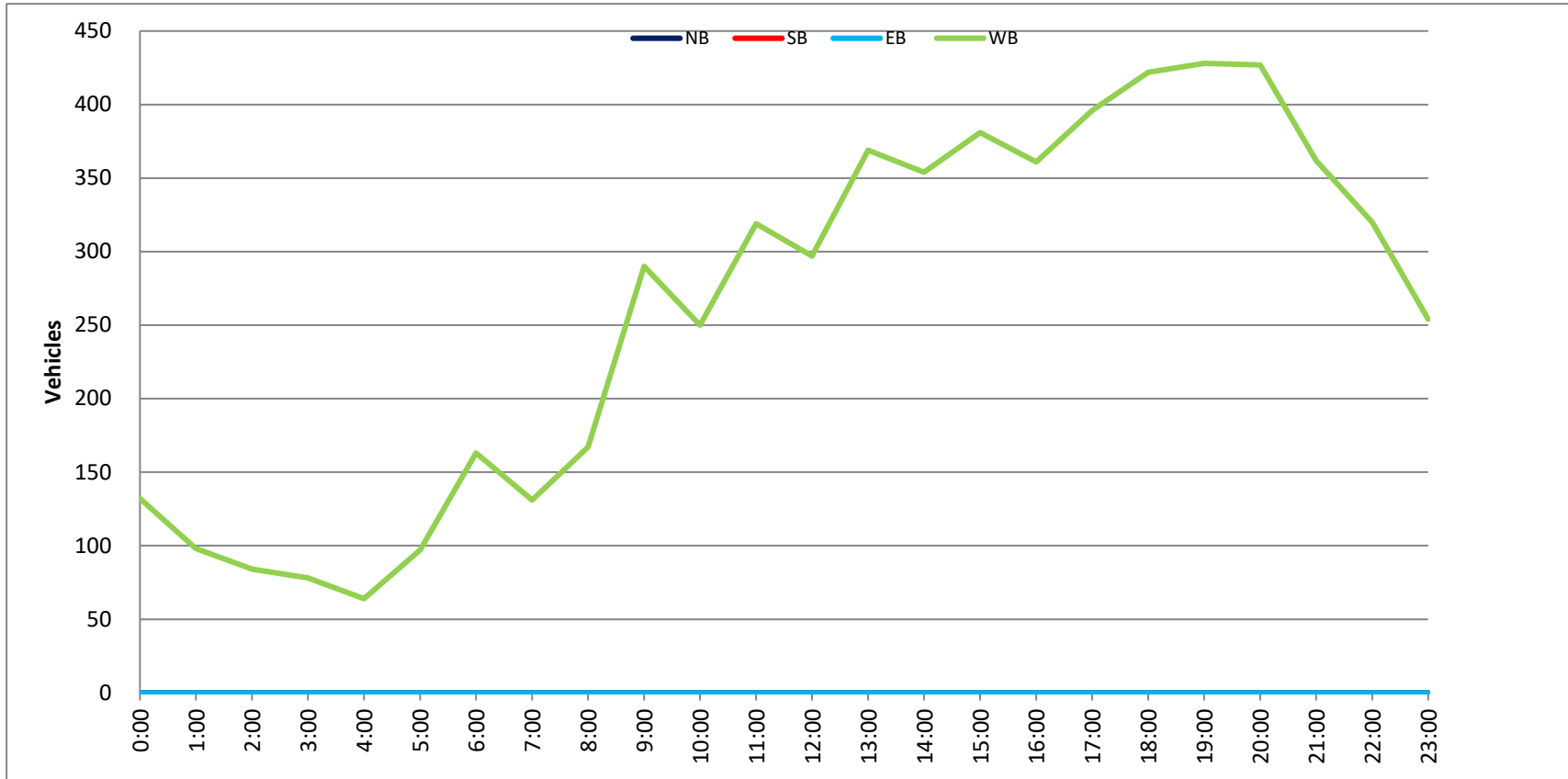
AM Peak Hour			11:00	11:00	PM Peak Hour			18:30	18:30		
AM Pk Volume			319	319	PM Pk Volume			450	450		
Pk Hr Factor			0.876	0.876	Pk Hr Factor			0.938	0.938		
7 - 9 Volume	0	0	0	298	298	4 - 6 Volume	0	0	0	757	757
7 - 9 Peak Hour				8:00	8:00	4 - 6 Peak Hour				16:45	16:45
7 - 9 Pk Volume	0	0	0	167	167	4 - 6 Pk Volume	0	0	0	404	404
Pk Hr Factor	0.000	0.000	0.000	0.696	0.696	Pk Hr Factor	0.000	0.000	0.000	0.944	0.944

Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/16/2022



VOLUME

14145 Campo Rd Driveway Entrance

Day: Tuesday
Date: 4/19/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	4,501	4,501		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	24	24	12:00			0	51	51
0:15			0	24	24	12:15			0	62	62
0:30			0	27	27	12:30			0	55	55
0:45			0	27	102	12:45			0	49	217
1:00			0	22	22	13:00			0	58	58
1:15			0	14	14	13:15			0	78	78
1:30			0	17	17	13:30			0	62	62
1:45			0	18	71	13:45			0	46	244
2:00			0	14	14	14:00			0	65	65
2:15			0	11	11	14:15			0	58	58
2:30			0	12	12	14:30			0	64	64
2:45			0	8	45	14:45			0	70	257
3:00			0	17	17	15:00			0	55	55
3:15			0	10	10	15:15			0	48	48
3:30			0	11	11	15:30			0	71	71
3:45			0	10	48	15:45			0	67	241
4:00			0	9	9	16:00			0	50	50
4:15			0	10	10	16:15			0	62	62
4:30			0	16	16	16:30			0	65	65
4:45			0	15	50	16:45			0	77	254
5:00			0	11	11	17:00			0	76	76
5:15			0	23	23	17:15			0	68	68
5:30			0	16	16	17:30			0	87	87
5:45			0	19	69	17:45			0	51	282
6:00			0	19	19	18:00			0	92	92
6:15			0	16	16	18:15			0	72	72
6:30			0	29	29	18:30			0	81	81
6:45			0	27	91	18:45			0	76	321
7:00			0	22	22	19:00			0	88	88
7:15			0	25	25	19:15			0	81	81
7:30			0	34	34	19:30			0	79	79
7:45			0	38	119	19:45			0	65	313
8:00			0	20	20	20:00			0	66	66
8:15			0	22	22	20:15			0	84	84
8:30			0	58	58	20:30			0	65	65
8:45			0	53	153	20:45			0	71	286
9:00			0	41	41	21:00			0	60	60
9:15			0	50	50	21:15			0	60	60
9:30			0	69	69	21:30			0	55	55
9:45			0	56	216	21:45			0	78	253
10:00			0	52	52	22:00			0	48	48
10:15			0	62	62	22:15			0	57	57
10:30			0	68	68	22:30			0	43	43
10:45			0	56	238	22:45			0	45	193
11:00			0	68	68	23:00			0	55	55
11:15			0	65	65	23:15			0	41	41
11:30			0	82	82	23:30			0	33	33
11:45			0	65	280	23:45			0	29	158
TOTALS				1482	1482	TOTALS				3019	3019
SPLIT %				100.0%	32.9%	SPLIT %				100.0%	67.1%

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	4,501	4,501		
AM Peak Hour				11:00	11:00	PM Peak Hour			18:30	18:30	
AM Pk Volume				280	280	PM Pk Volume			326	326	
Pk Hr Factor				0.854	0.854	Pk Hr Factor			0.926	0.926	
7 - 9 Volume	0	0	0	272	272	4 - 6 Volume	0	0	0	536	536
7 - 9 Peak Hour				8:00	8:00	4 - 6 Peak Hour				16:45	16:45
7 - 9 Pk Volume	0	0	0	153	153	4 - 6 Pk Volume	0	0	0	308	308
Pk Hr Factor	0.000	0.000	0.000	0.659	0.659	Pk Hr Factor	0.000	0.000	0.000	0.885	0.885

VOLUME

14145 Campo Rd Driveway Entrance

Day: Wednesday
Date: 4/20/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	5,562	5,562		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	20	20	12:00			0	77	77
0:15			0	26	26	12:15			0	70	70
0:30			0	23	23	12:30			0	100	100
0:45			0	14 83	14 83	12:45			0	92 339	92 339
1:00			0	18	18	13:00			0	74	74
1:15			0	15	15	13:15			0	94	94
1:30			0	17	17	13:30			0	68	68
1:45			0	10 60	10 60	13:45			0	85 321	85 321
2:00			0	17	17	14:00			0	69	69
2:15			0	17	17	14:15			0	92	92
2:30			0	17	17	14:30			0	97	97
2:45			0	12 63	12 63	14:45			0	78 336	78 336
3:00			0	10	10	15:00			0	92	92
3:15			0	11	11	15:15			0	76	76
3:30			0	11	11	15:30			0	91	91
3:45			0	9 41	9 41	15:45			0	81 340	81 340
4:00			0	16	16	16:00			0	74	74
4:15			0	17	17	16:15			0	69	69
4:30			0	18	18	16:30			0	73	73
4:45			0	20 71	20 71	16:45			0	106 322	106 322
5:00			0	16	16	17:00			0	98	98
5:15			0	10	10	17:15			0	99	99
5:30			0	23	23	17:30			0	95	95
5:45			0	20 69	20 69	17:45			0	128 420	128 420
6:00			0	27	27	18:00			0	121	121
6:15			0	17	17	18:15			0	111	111
6:30			0	37	37	18:30			0	127	127
6:45			0	19 100	19 100	18:45			0	116 475	116 475
7:00			0	19	19	19:00			0	122	122
7:15			0	32	32	19:15			0	103	103
7:30			0	30	30	19:30			0	109	109
7:45			0	27 108	27 108	19:45			0	82 416	82 416
8:00			0	43	43	20:00			0	57	57
8:15			0	41	41	20:15			0	59	59
8:30			0	89	89	20:30			0	73	73
8:45			0	64 237	64 237	20:45			0	64 253	64 253
9:00			0	48	48	21:00			0	70	70
9:15			0	63	63	21:15			0	48	48
9:30			0	66	66	21:30			0	48	48
9:45			0	52 229	52 229	21:45			0	55 221	55 221
10:00			0	76	76	22:00			0	44	44
10:15			0	67	67	22:15			0	58	58
10:30			0	79	79	22:30			0	49	49
10:45			0	88 310	88 310	22:45			0	39 190	39 190
11:00			0	77	77	23:00			0	37	37
11:15			0	88	88	23:15			0	52	52
11:30			0	107	107	23:30			0	43	43
11:45			0	105 377	105 377	23:45			0	49 181	49 181
TOTALS				1748	1748	TOTALS				3814	3814
SPLIT %				100.0%	31.4%	SPLIT %				100.0%	68.6%

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	5,562	5,562		
AM Peak Hour				11:00	11:00	PM Peak Hour			17:45	17:45	
AM Pk Volume				377	377	PM Pk Volume			487	487	
Pk Hr Factor				0.881	0.881	Pk Hr Factor			0.951	0.951	
7 - 9 Volume	0	0	0	345	345	4 - 6 Volume	0	0	0	742	742
7 - 9 Peak Hour				8:00	8:00	4 - 6 Peak Hour				17:00	17:00
7 - 9 Pk Volume	0	0	0	237	237	4 - 6 Pk Volume	0	0	0	420	420
Pk Hr Factor	0.000	0.000	0.000	0.666	0.666	Pk Hr Factor	0.000	0.000	0.000	0.820	0.820

VOLUME

14145 Campo Rd Driveway Entrance

Day: Thursday
Date: 4/21/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	4,871	4,871		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	19	19	12:00			0	60	60
0:15			0	19	19	12:15			0	60	60
0:30			0	17	17	12:30			0	77	77
0:45			0	27	82	12:45			0	71	268
1:00			0	24	24	13:00			0	58	58
1:15			0	17	17	13:15			0	68	68
1:30			0	24	24	13:30			0	71	71
1:45			0	13	78	13:45			0	91	288
2:00			0	30	30	14:00			0	55	55
2:15			0	17	17	14:15			0	75	75
2:30			0	11	11	14:30			0	61	61
2:45			0	25	83	14:45			0	71	262
3:00			0	15	15	15:00			0	67	67
3:15			0	12	12	15:15			0	74	74
3:30			0	15	15	15:30			0	70	70
3:45			0	10	52	15:45			0	81	292
4:00			0	7	7	16:00			0	68	68
4:15			0	14	14	16:15			0	78	78
4:30			0	5	5	16:30			0	66	66
4:45			0	14	40	16:45			0	79	291
5:00			0	13	13	17:00			0	77	77
5:15			0	15	15	17:15			0	104	104
5:30			0	20	20	17:30			0	107	107
5:45			0	20	68	17:45			0	105	393
6:00			0	19	19	18:00			0	94	94
6:15			0	27	27	18:15			0	94	94
6:30			0	33	33	18:30			0	69	69
6:45			0	24	103	18:45			0	103	360
7:00			0	14	14	19:00			0	112	112
7:15			0	31	31	19:15			0	85	85
7:30			0	25	25	19:30			0	86	86
7:45			0	27	97	19:45			0	68	351
8:00			0	18	18	20:00			0	68	68
8:15			0	25	25	20:15			0	54	54
8:30			0	63	63	20:30			0	66	66
8:45			0	54	160	20:45			0	60	248
9:00			0	52	52	21:00			0	51	51
9:15			0	50	50	21:15			0	67	67
9:30			0	60	60	21:30			0	62	62
9:45			0	58	220	21:45			0	50	230
10:00			0	61	61	22:00			0	45	45
10:15			0	63	63	22:15			0	53	53
10:30			0	62	62	22:30			0	52	52
10:45			0	71	257	22:45			0	37	187
11:00			0	66	66	23:00			0	36	36
11:15			0	67	67	23:15			0	43	43
11:30			0	74	74	23:30			0	50	50
11:45			0	70	277	23:45			0	55	184
TOTALS				1517	1517	TOTALS				3354	3354
SPLIT %				100.0%	31.1%	SPLIT %				100.0%	68.9%

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	4,871	4,871		
AM Peak Hour				10:45	10:45	PM Peak Hour			17:15	17:15	
AM Pk Volume				278	278	PM Pk Volume			410	410	
Pk Hr Factor				0.939	0.939	Pk Hr Factor			0.958	0.958	
7 - 9 Volume	0	0	0	257	257	4 - 6 Volume	0	0	0	684	684
7 - 9 Peak Hour				8:00	8:00	4 - 6 Peak Hour				17:00	17:00
7 - 9 Pk Volume	0	0	0	160	160	4 - 6 Pk Volume	0	0	0	393	393
Pk Hr Factor	0.000	0.000	0.000	0.635	0.635	Pk Hr Factor	0.000	0.000	0.000	0.918	0.918

VOLUME

14145 Campo Rd Driveway Entrance

Day: Friday
Date: 4/22/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	5,473	5,473		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	27	27	12:00			0	52	52
0:15			0	37	37	12:15			0	38	38
0:30			0	23	23	12:30			0	74	74
0:45			0	20	107	12:45			0	53	217
1:00			0	22	22	13:00			0	53	53
1:15			0	28	28	13:15			0	60	60
1:30			0	24	24	13:30			0	68	68
1:45			0	21	95	13:45			0	75	256
2:00			0	25	25	14:00			0	91	91
2:15			0	16	16	14:15			0	89	89
2:30			0	13	13	14:30			0	85	85
2:45			0	17	71	14:45			0	60	325
3:00			0	16	16	15:00			0	62	62
3:15			0	13	13	15:15			0	78	78
3:30			0	15	15	15:30			0	67	67
3:45			0	12	56	15:45			0	77	284
4:00			0	11	11	16:00			0	69	69
4:15			0	9	9	16:15			0	74	74
4:30			0	12	12	16:30			0	73	73
4:45			0	13	45	16:45			0	93	309
5:00			0	15	15	17:00			0	94	94
5:15			0	11	11	17:15			0	105	105
5:30			0	22	22	17:30			0	88	88
5:45			0	21	69	17:45			0	105	392
6:00			0	16	16	18:00			0	88	88
6:15			0	27	27	18:15			0	88	88
6:30			0	29	29	18:30			0	87	87
6:45			0	30	102	18:45			0	152	415
7:00			0	20	20	19:00			0	116	116
7:15			0	23	23	19:15			0	99	99
7:30			0	29	29	19:30			0	128	128
7:45			0	28	100	19:45			0	136	479
8:00			0	19	19	20:00			0	109	109
8:15			0	15	15	20:15			0	90	90
8:30			0	52	52	20:30			0	93	93
8:45			0	61	147	20:45			0	88	380
9:00			0	57	57	21:00			0	86	86
9:15			0	48	48	21:15			0	101	101
9:30			0	69	69	21:30			0	76	76
9:45			0	65	239	21:45			0	88	351
10:00			0	40	40	22:00			0	72	72
10:15			0	66	66	22:15			0	70	70
10:30			0	66	66	22:30			0	80	80
10:45			0	56	228	22:45			0	80	302
11:00			0	53	53	23:00			0	61	61
11:15			0	68	68	23:15			0	73	73
11:30			0	66	66	23:30			0	48	48
11:45			0	67	254	23:45			0	68	250
TOTALS				1513	1513	TOTALS				3960	3960
SPLIT %				100.0%	27.6%	SPLIT %				100.0%	72.4%

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	5,473	5,473		
AM Peak Hour				11:00	11:00	PM Peak Hour			18:45	18:45	
AM Pk Volume				254	254	PM Pk Volume			495	495	
Pk Hr Factor				0.934	0.934	Pk Hr Factor			0.814	0.814	
7 - 9 Volume	0	0	0	247	247	4 - 6 Volume	0	0	0	701	701
7 - 9 Peak Hour				8:00	8:00	4 - 6 Peak Hour				17:00	17:00
7 - 9 Pk Volume	0	0	0	147	147	4 - 6 Pk Volume	0	0	0	392	392
Pk Hr Factor	0.000	0.000	0.000	0.602	0.602	Pk Hr Factor	0.000	0.000	0.000	0.933	0.933

VOLUME

14145 Campo Rd Driveway Entrance

Day: Saturday
Date: 4/23/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	6,867	6,867

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	40	40	12:00			0	88	88
0:15			0	42	42	12:15			0	93	93
0:30			0	20	20	12:30			0	93	93
0:45			0	32 134	32 134	12:45			0	103 377	103 377
1:00			0	26	26	13:00			0	125	125
1:15			0	29	29	13:15			0	115	115
1:30			0	31	31	13:30			0	127	127
1:45			0	23 109	23 109	13:45			0	96 463	96 463
2:00			0	16	16	14:00			0	127	127
2:15			0	16	16	14:15			0	113	113
2:30			0	20	20	14:30			0	102	102
2:45			0	29 81	29 81	14:45			0	115 457	115 457
3:00			0	26	26	15:00			0	113	113
3:15			0	17	17	15:15			0	133	133
3:30			0	18	18	15:30			0	93	93
3:45			0	21 82	21 82	15:45			0	121 460	121 460
4:00			0	12	12	16:00			0	106	106
4:15			0	25	25	16:15			0	78	78
4:30			0	9	9	16:30			0	104	104
4:45			0	22 68	22 68	16:45			0	101 389	101 389
5:00			0	14	14	17:00			0	118	118
5:15			0	18	18	17:15			0	86	86
5:30			0	29	29	17:30			0	100	100
5:45			0	25 86	25 86	17:45			0	90 394	90 394
6:00			0	21	21	18:00			0	94	94
6:15			0	25	25	18:15			0	93	93
6:30			0	36	36	18:30			0	109	109
6:45			0	33 115	33 115	18:45			0	102 398	102 398
7:00			0	21	21	19:00			0	91	91
7:15			0	39	39	19:15			0	118	118
7:30			0	29	29	19:30			0	108	108
7:45			0	45 134	45 134	19:45			0	105 422	105 422
8:00			0	36	36	20:00			0	122	122
8:15			0	41	41	20:15			0	104	104
8:30			0	46	46	20:30			0	74	74
8:45			0	62 185	62 185	20:45			0	93 393	93 393
9:00			0	66	66	21:00			0	107	107
9:15			0	71	71	21:15			0	126	126
9:30			0	102	102	21:30			0	111	111
9:45			0	95 334	95 334	21:45			0	95 439	95 439
10:00			0	64	64	22:00			0	84	84
10:15			0	95	95	22:15			0	78	78
10:30			0	93	93	22:30			0	73	73
10:45			0	93 345	93 345	22:45			0	85 320	85 320
11:00			0	87	87	23:00			0	75	75
11:15			0	96	96	23:15			0	53	53
11:30			0	129	129	23:30			0	67	67
11:45			0	109 421	109 421	23:45			0	66 261	66 261
TOTALS				2094	2094	TOTALS				4773	4773
SPLIT %				100.0%	30.5%	SPLIT %				100.0%	69.5%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	6,867	6,867

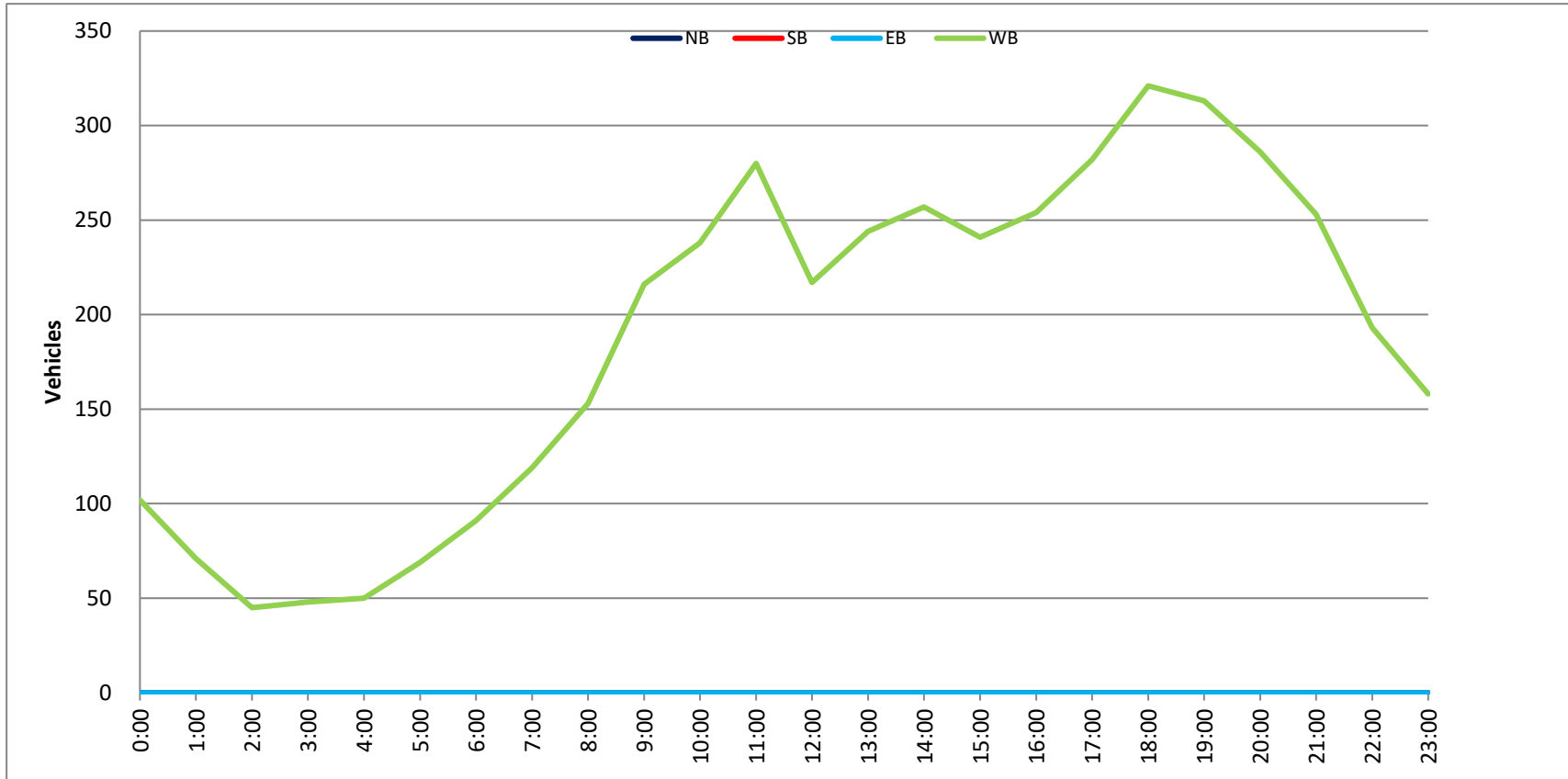
AM Peak Hour			11:15	11:15	PM Peak Hour			12:45	12:45		
AM Pk Volume			422	422	PM Pk Volume			470	470		
Pk Hr Factor			0.818	0.818	Pk Hr Factor			0.925	0.925		
7 - 9 Volume	0	0	0	319	319	4 - 6 Volume	0	0	0	783	783
7 - 9 Peak Hour				8:00	8:00	4 - 6 Peak Hour				16:30	16:30
7 - 9 Pk Volume	0	0	0	185	185	4 - 6 Pk Volume	0	0	0	409	409
Pk Hr Factor	0.000	0.000	0.000	0.746	0.746	Pk Hr Factor	0.000	0.000	0.000	0.867	0.867

Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/19/2022

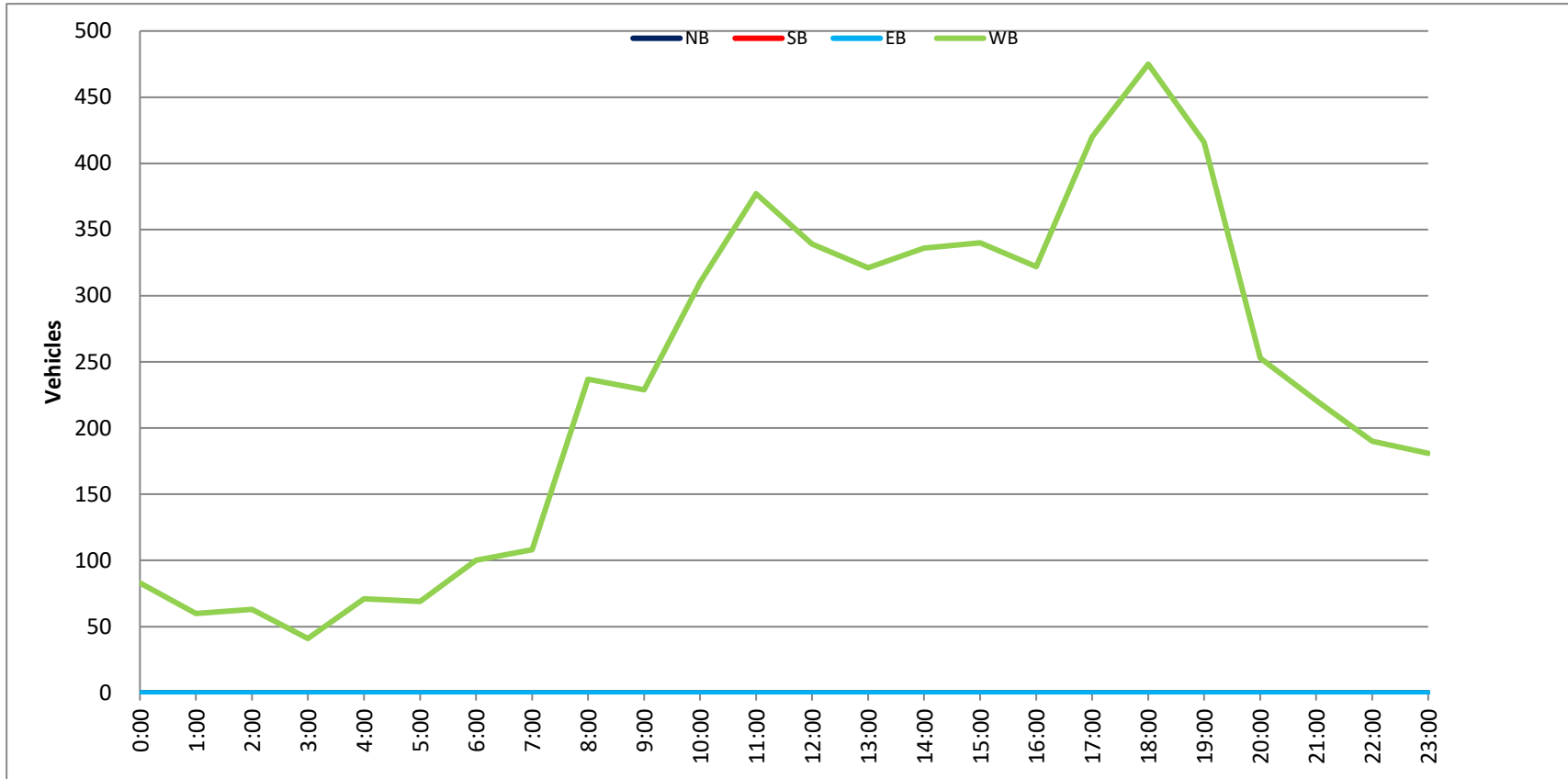


Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/20/2022

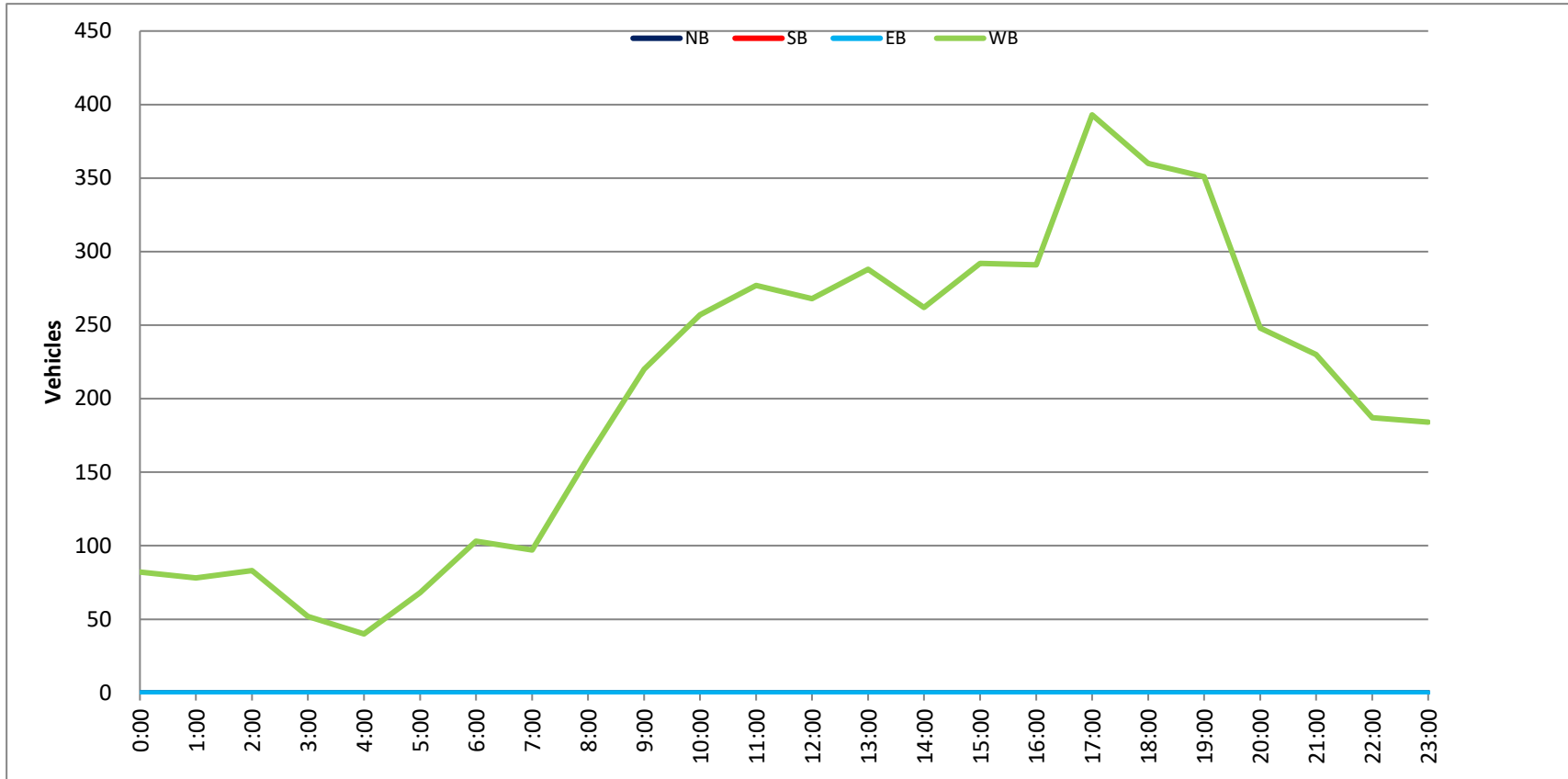


Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/21/2022

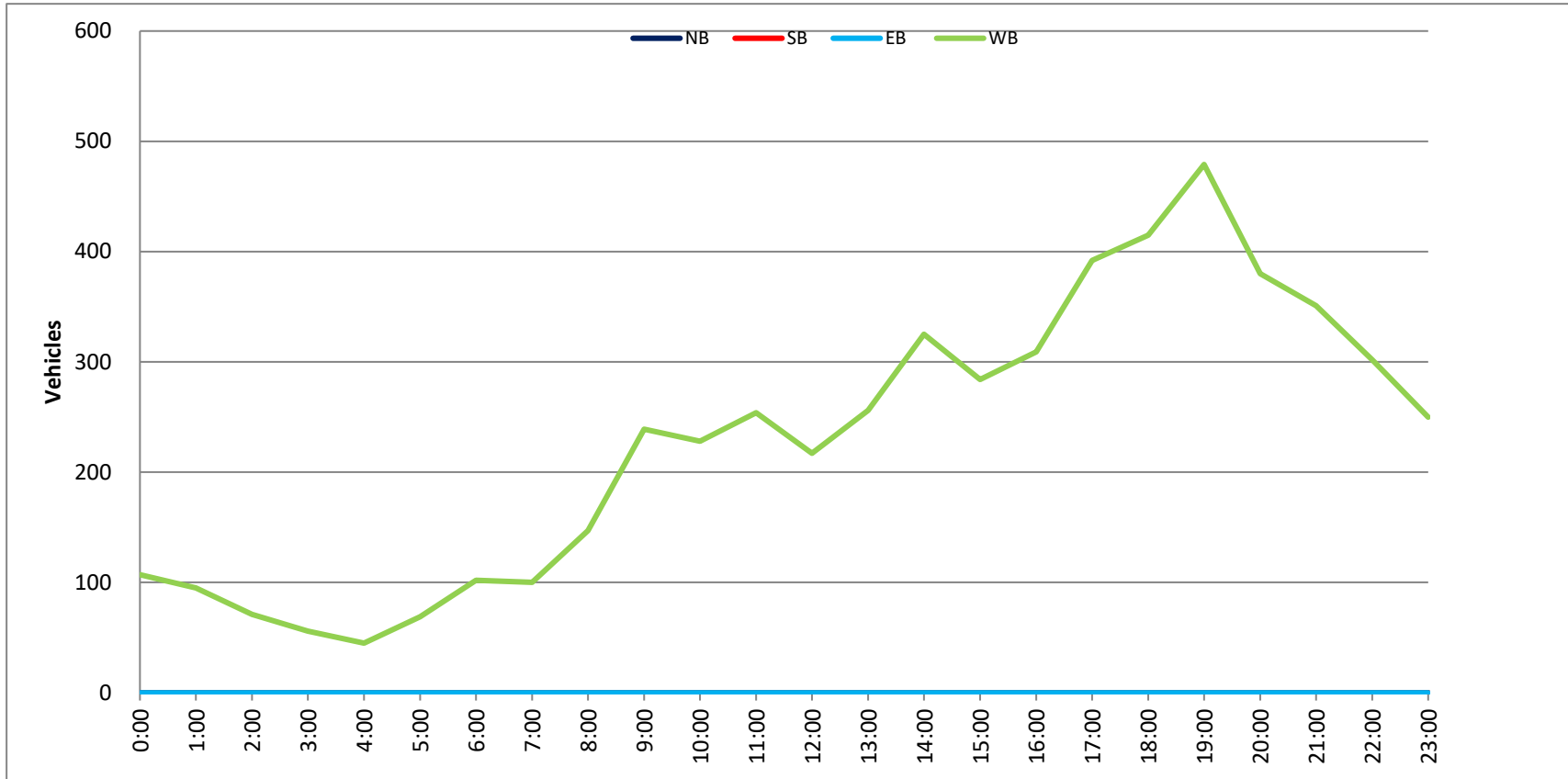


Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/22/2022

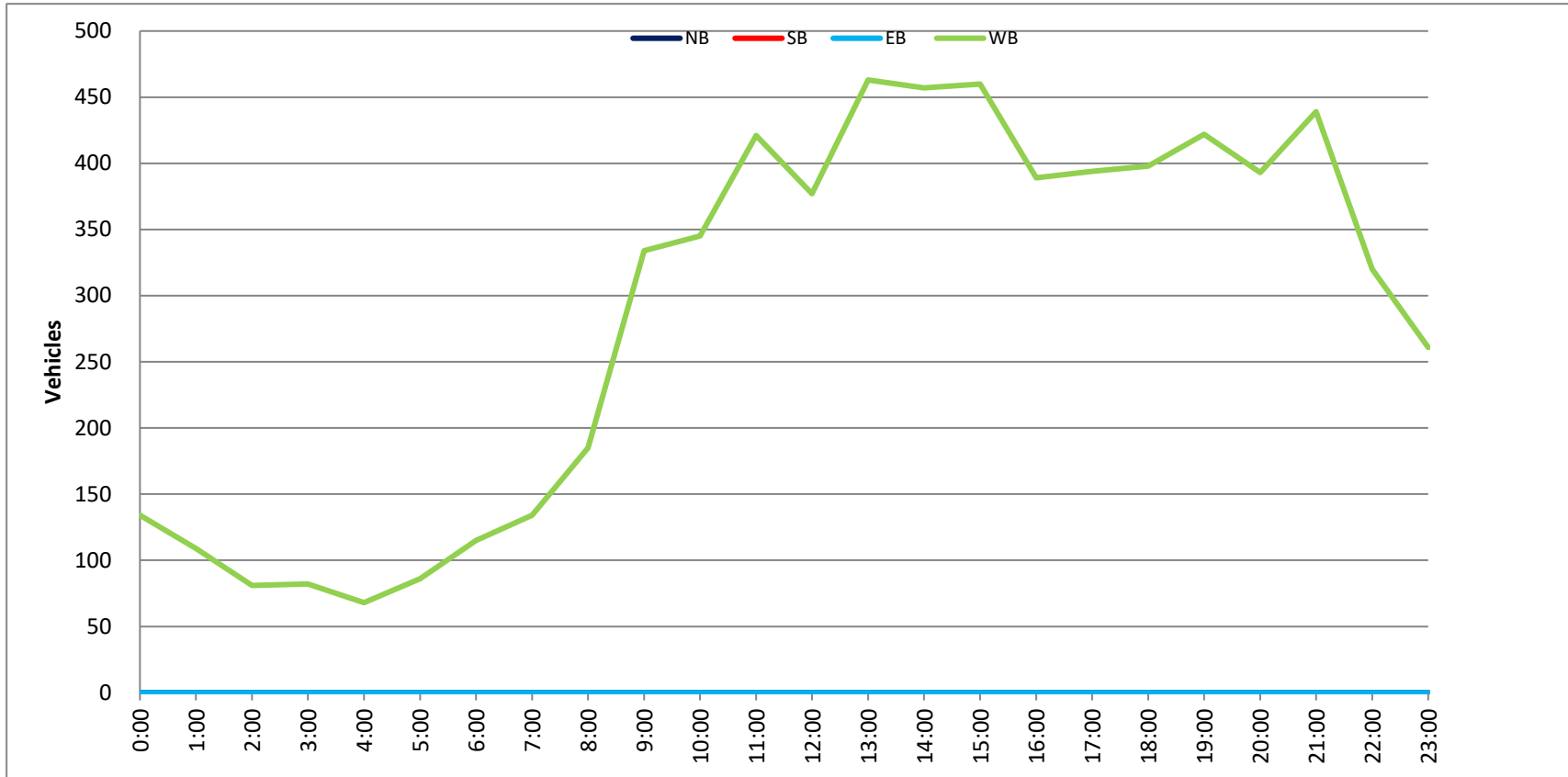


Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/23/2022



VOLUME

14145 Campo Rd Driveway Entrance

Day: Tuesday
Date: 4/26/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	4,652	4,652

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	15	15	12:00			0	66	66
0:15			0	16	16	12:15			0	60	60
0:30			0	23	23	12:30			0	76	76
0:45			0	16	70	12:45			0	65	267
1:00			0	20	20	13:00			0	76	76
1:15			0	24	24	13:15			0	61	61
1:30			0	13	13	13:30			0	64	64
1:45			0	13	70	13:45			0	63	264
2:00			0	23	23	14:00			0	46	46
2:15			0	15	15	14:15			0	58	58
2:30			0	17	17	14:30			0	56	56
2:45			0	7	62	14:45			0	62	222
3:00			0	15	15	15:00			0	44	44
3:15			0	10	10	15:15			0	73	73
3:30			0	13	13	15:30			0	57	57
3:45			0	11	49	15:45			0	68	242
4:00			0	16	16	16:00			0	81	81
4:15			0	13	13	16:15			0	61	61
4:30			0	17	17	16:30			0	66	66
4:45			0	16	62	16:45			0	82	290
5:00			0	5	5	17:00			0	72	72
5:15			0	17	17	17:15			0	73	73
5:30			0	34	34	17:30			0	81	81
5:45			0	35	91	17:45			0	84	310
6:00			0	15	15	18:00			0	95	95
6:15			0	26	26	18:15			0	89	89
6:30			0	29	29	18:30			0	85	85
6:45			0	27	97	18:45			0	100	369
7:00			0	25	25	19:00			0	85	85
7:15			0	38	38	19:15			0	70	70
7:30			0	23	23	19:30			0	87	87
7:45			0	28	114	19:45			0	59	301
8:00			0	28	28	20:00			0	80	80
8:15			0	33	33	20:15			0	51	51
8:30			0	61	61	20:30			0	79	79
8:45			0	58	180	20:45			0	76	286
9:00			0	30	30	21:00			0	52	52
9:15			0	53	53	21:15			0	48	48
9:30			0	70	70	21:30			0	59	59
9:45			0	62	215	21:45			0	55	214
10:00			0	55	55	22:00			0	39	39
10:15			0	53	53	22:15			0	44	44
10:30			0	66	66	22:30			0	71	71
10:45			0	48	222	22:45			0	49	203
11:00			0	45	45	23:00			0	35	35
11:15			0	94	94	23:15			0	44	44
11:30			0	84	84	23:30			0	45	45
11:45			0	59	282	23:45			0	46	170
TOTALS				1514	1514	TOTALS				3138	3138
SPLIT %				100.0%	32.5%	SPLIT %				100.0%	67.5%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	4,652	4,652

AM Peak Hour			11:15	11:15	PM Peak Hour			18:00	18:00		
AM Pk Volume			303	303	PM Pk Volume			369	369		
Pk Hr Factor			0.806	0.806	Pk Hr Factor			0.923	0.923		
7 - 9 Volume	0	0	0	294	294	4 - 6 Volume	0	0	0	600	600
7 - 9 Peak Hour				8:00	8:00	4 - 6 Peak Hour				17:00	17:00
7 - 9 Pk Volume	0	0	0	180	180	4 - 6 Pk Volume	0	0	0	310	310
Pk Hr Factor	0.000	0.000	0.000	0.738	0.738	Pk Hr Factor	0.000	0.000	0.000	0.923	0.923

VOLUME

14145 Campo Rd Driveway Entrance

Day: Wednesday
Date: 4/27/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	5,315	5,315

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	29	29	12:00			0	72	72
0:15			0	27	27	12:15			0	72	72
0:30			0	21	21	12:30			0	69	69
0:45			0	23	100	12:45			0	69	282
1:00			0	18	18	13:00			0	86	86
1:15			0	17	17	13:15			0	75	75
1:30			0	26	26	13:30			0	96	96
1:45			0	22	83	13:45			0	94	351
2:00			0	11	11	14:00			0	73	73
2:15			0	14	14	14:15			0	67	67
2:30			0	22	22	14:30			0	91	91
2:45			0	8	55	14:45			0	68	299
3:00			0	11	11	15:00			0	68	68
3:15			0	18	18	15:15			0	68	68
3:30			0	10	10	15:30			0	65	65
3:45			0	14	53	15:45			0	90	291
4:00			0	10	10	16:00			0	92	92
4:15			0	15	15	16:15			0	95	95
4:30			0	13	13	16:30			0	69	69
4:45			0	22	60	16:45			0	106	362
5:00			0	7	7	17:00			0	101	101
5:15			0	14	14	17:15			0	97	97
5:30			0	25	25	17:30			0	104	104
5:45			0	23	69	17:45			0	105	407
6:00			0	24	24	18:00			0	119	119
6:15			0	20	20	18:15			0	90	90
6:30			0	28	28	18:30			0	126	126
6:45			0	24	96	18:45			0	111	446
7:00			0	18	18	19:00			0	99	99
7:15			0	24	24	19:15			0	112	112
7:30			0	28	28	19:30			0	81	81
7:45			0	45	115	19:45			0	81	373
8:00			0	35	35	20:00			0	64	64
8:15			0	43	43	20:15			0	48	48
8:30			0	51	51	20:30			0	64	64
8:45			0	54	183	20:45			0	65	241
9:00			0	56	56	21:00			0	49	49
9:15			0	49	49	21:15			0	61	61
9:30			0	71	71	21:30			0	42	42
9:45			0	64	240	21:45			0	52	204
10:00			0	75	75	22:00			0	53	53
10:15			0	91	91	22:15			0	50	50
10:30			0	69	69	22:30			0	47	47
10:45			0	85	320	22:45			0	52	202
11:00			0	64	64	23:00			0	50	50
11:15			0	78	78	23:15			0	31	31
11:30			0	87	87	23:30			0	45	45
11:45			0	88	317	23:45			0	40	166
TOTALS				1691	1691	TOTALS				3624	3624
SPLIT %				100.0%	31.8%	SPLIT %				100.0%	68.2%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	5,315	5,315

AM Peak Hour			11:15	11:15	PM Peak Hour			18:30	18:30		
AM Pk Volume			325	325	PM Pk Volume			448	448		
Pk Hr Factor			0.923	0.923	Pk Hr Factor			0.889	0.889		
7 - 9 Volume	0	0	0	298	298	4 - 6 Volume	0	0	0	769	769
7 - 9 Peak Hour				8:00	8:00	4 - 6 Peak Hour				16:45	16:45
7 - 9 Pk Volume	0	0	0	183	183	4 - 6 Pk Volume	0	0	0	408	408
Pk Hr Factor	0.000	0.000	0.000	0.847	0.847	Pk Hr Factor	0.000	0.000	0.000	0.962	0.962

VOLUME

14145 Campo Rd Driveway Entrance

Day: Thursday
Date: 4/28/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	4,797	4,797

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	23	23	12:00			0	69	69
0:15			0	26	26	12:15			0	62	62
0:30			0	25	25	12:30			0	71	71
0:45			0	16	90	12:45			0	62	264
1:00			0	20	20	13:00			0	65	65
1:15			0	28	28	13:15			0	72	72
1:30			0	12	12	13:30			0	86	86
1:45			0	18	78	13:45			0	60	283
2:00			0	17	17	14:00			0	61	61
2:15			0	10	10	14:15			0	65	65
2:30			0	21	21	14:30			0	68	68
2:45			0	21	69	14:45			0	61	255
3:00			0	21	21	15:00			0	68	68
3:15			0	18	18	15:15			0	69	69
3:30			0	25	25	15:30			0	79	79
3:45			0	6	70	15:45			0	78	294
4:00			0	6	6	16:00			0	61	61
4:15			0	8	8	16:15			0	76	76
4:30			0	10	10	16:30			0	68	68
4:45			0	15	39	16:45			0	98	303
5:00			0	15	15	17:00			0	80	80
5:15			0	13	13	17:15			0	92	92
5:30			0	24	24	17:30			0	111	111
5:45			0	17	69	17:45			0	92	375
6:00			0	20	20	18:00			0	86	86
6:15			0	22	22	18:15			0	90	90
6:30			0	27	27	18:30			0	89	89
6:45			0	33	102	18:45			0	94	359
7:00			0	14	14	19:00			0	75	75
7:15			0	29	29	19:15			0	87	87
7:30			0	25	25	19:30			0	88	88
7:45			0	27	95	19:45			0	80	330
8:00			0	29	29	20:00			0	69	69
8:15			0	15	15	20:15			0	77	77
8:30			0	40	40	20:30			0	61	61
8:45			0	59	143	20:45			0	49	256
9:00			0	36	36	21:00			0	60	60
9:15			0	50	50	21:15			0	62	62
9:30			0	55	55	21:30			0	46	46
9:45			0	44	185	21:45			0	48	216
10:00			0	59	59	22:00			0	49	49
10:15			0	53	53	22:15			0	73	73
10:30			0	72	72	22:30			0	51	51
10:45			0	58	242	22:45			0	47	220
11:00			0	55	55	23:00			0	50	50
11:15			0	71	71	23:15			0	39	39
11:30			0	79	79	23:30			0	50	50
11:45			0	72	277	23:45			0	44	183
TOTALS				1459	1459	TOTALS				3338	3338
SPLIT %				100.0%	30.4%	SPLIT %				100.0%	69.6%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	0	4,797	4,797

AM Peak Hour			11:15	11:15	PM Peak Hour			16:45	16:45		
AM Pk Volume			291	291	PM Pk Volume			381	381		
Pk Hr Factor			0.921	0.921	Pk Hr Factor			0.858	0.858		
7 - 9 Volume	0	0	0	238	238	4 - 6 Volume	0	0	0	678	678
7 - 9 Peak Hour				8:00	8:00	4 - 6 Peak Hour				16:45	16:45
7 - 9 Pk Volume	0	0	0	143	143	4 - 6 Pk Volume	0	0	0	381	381
Pk Hr Factor	0.000	0.000	0.000	0.606	0.606	Pk Hr Factor	0.000	0.000	0.000	0.858	0.858

VOLUME

14145 Campo Rd Driveway Entrance

Day: Friday
Date: 4/29/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	0	0		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	0	0	12:00			0	0	0
0:15			0	0	0	12:15			0	0	0
0:30			0	0	0	12:30			0	0	0
0:45			0	0	0	12:45			0	0	0
1:00			0	0	0	13:00			0	0	0
1:15			0	0	0	13:15			0	0	0
1:30			0	0	0	13:30			0	0	0
1:45			0	0	0	13:45			0	0	0
2:00			0	0	0	14:00			0	0	0
2:15			0	0	0	14:15			0	0	0
2:30			0	0	0	14:30			0	0	0
2:45			0	0	0	14:45			0	0	0
3:00			0	0	0	15:00			0	0	0
3:15			0	0	0	15:15			0	0	0
3:30			0	0	0	15:30			0	0	0
3:45			0	0	0	15:45			0	0	0
4:00			0	0	0	16:00			0	0	0
4:15			0	0	0	16:15			0	0	0
4:30			0	0	0	16:30			0	0	0
4:45			0	0	0	16:45			0	0	0
5:00			0	0	0	17:00			0	0	0
5:15			0	0	0	17:15			0	0	0
5:30			0	0	0	17:30			0	0	0
5:45			0	0	0	17:45			0	0	0
6:00			0	0	0	18:00			0	0	0
6:15			0	0	0	18:15			0	0	0
6:30			0	0	0	18:30			0	0	0
6:45			0	0	0	18:45			0	0	0
7:00			0	0	0	19:00			0	0	0
7:15			0	0	0	19:15			0	0	0
7:30			0	0	0	19:30			0	0	0
7:45			0	0	0	19:45			0	0	0
8:00			0	0	0	20:00			0	0	0
8:15			0	0	0	20:15			0	0	0
8:30			0	0	0	20:30			0	0	0
8:45			0	0	0	20:45			0	0	0
9:00			0	0	0	21:00			0	0	0
9:15			0	0	0	21:15			0	0	0
9:30			0	0	0	21:30			0	0	0
9:45			0	0	0	21:45			0	0	0
10:00			0	0	0	22:00			0	0	0
10:15			0	0	0	22:15			0	0	0
10:30			0	0	0	22:30			0	0	0
10:45			0	0	0	22:45			0	0	0
11:00			0	0	0	23:00			0	0	0
11:15			0	0	0	23:15			0	0	0
11:30			0	0	0	23:30			0	0	0
11:45			0	0	0	23:45			0	0	0
TOTALS					0	TOTALS					0
SPLIT %					#DIV/0!	SPLIT %					#DIV/0!

DAILY TOTALS					NB	SB	EB	WB	Total
					0	0	0	0	0

AM Peak Hour						PM Peak Hour					
AM Pk Volume						PM Pk Volume					
Pk Hr Factor						Pk Hr Factor					
7 - 9 Volume	0	0	0	0	0	4 - 6 Volume	0	0	0	0	
7 - 9 Peak Hour						4 - 6 Peak Hour					
7 - 9 Pk Volume	0	0	0	0	0	4 - 6 Pk Volume	0	0	0	0	
Pk Hr Factor	0.000	0.000	0.000	0.000	0.000	Pk Hr Factor	0.000	0.000	0.000	0.000	

VOLUME

14145 Campo Rd Driveway Entrance

Day: Saturday
Date: 4/30/2022

City: Jamul
Project #: CA22_040057_001

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	0	0	0		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			0	0	0	12:00			0	0	0
0:15			0	0	0	12:15			0	0	0
0:30			0	0	0	12:30			0	0	0
0:45			0	0	0	12:45			0	0	0
1:00			0	0	0	13:00			0	0	0
1:15			0	0	0	13:15			0	0	0
1:30			0	0	0	13:30			0	0	0
1:45			0	0	0	13:45			0	0	0
2:00			0	0	0	14:00			0	0	0
2:15			0	0	0	14:15			0	0	0
2:30			0	0	0	14:30			0	0	0
2:45			0	0	0	14:45			0	0	0
3:00			0	0	0	15:00			0	0	0
3:15			0	0	0	15:15			0	0	0
3:30			0	0	0	15:30			0	0	0
3:45			0	0	0	15:45			0	0	0
4:00			0	0	0	16:00			0	0	0
4:15			0	0	0	16:15			0	0	0
4:30			0	0	0	16:30			0	0	0
4:45			0	0	0	16:45			0	0	0
5:00			0	0	0	17:00			0	0	0
5:15			0	0	0	17:15			0	0	0
5:30			0	0	0	17:30			0	0	0
5:45			0	0	0	17:45			0	0	0
6:00			0	0	0	18:00			0	0	0
6:15			0	0	0	18:15			0	0	0
6:30			0	0	0	18:30			0	0	0
6:45			0	0	0	18:45			0	0	0
7:00			0	0	0	19:00			0	0	0
7:15			0	0	0	19:15			0	0	0
7:30			0	0	0	19:30			0	0	0
7:45			0	0	0	19:45			0	0	0
8:00			0	0	0	20:00			0	0	0
8:15			0	0	0	20:15			0	0	0
8:30			0	0	0	20:30			0	0	0
8:45			0	0	0	20:45			0	0	0
9:00			0	0	0	21:00			0	0	0
9:15			0	0	0	21:15			0	0	0
9:30			0	0	0	21:30			0	0	0
9:45			0	0	0	21:45			0	0	0
10:00			0	0	0	22:00			0	0	0
10:15			0	0	0	22:15			0	0	0
10:30			0	0	0	22:30			0	0	0
10:45			0	0	0	22:45			0	0	0
11:00			0	0	0	23:00			0	0	0
11:15			0	0	0	23:15			0	0	0
11:30			0	0	0	23:30			0	0	0
11:45			0	0	0	23:45			0	0	0
TOTALS					0	TOTALS					0
SPLIT %					#DIV/0!	SPLIT %					#DIV/0!

DAILY TOTALS					NB	SB	EB	WB	Total
					0	0	0	0	0

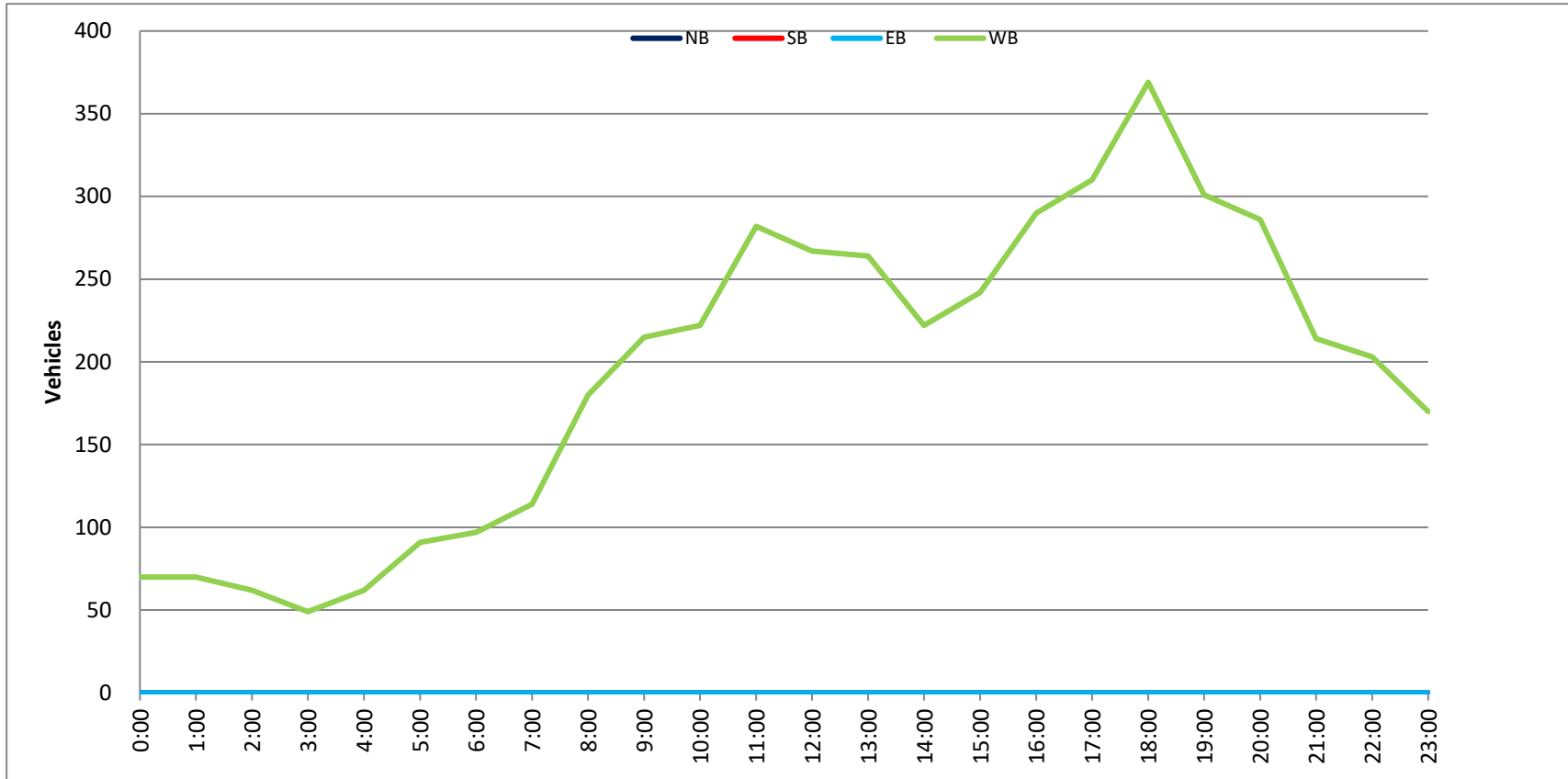
AM Peak Hour						PM Peak Hour					
AM Pk Volume						PM Pk Volume					
Pk Hr Factor						Pk Hr Factor					
7 - 9 Volume	0	0	0	0	0	4 - 6 Volume	0	0	0	0	
7 - 9 Peak Hour						4 - 6 Peak Hour					
7 - 9 Pk Volume	0	0	0	0	0	4 - 6 Pk Volume	0	0	0	0	
Pk Hr Factor	0.000	0.000	0.000	0.000	0.000	Pk Hr Factor	0.000	0.000	0.000	0.000	

Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/26/2022

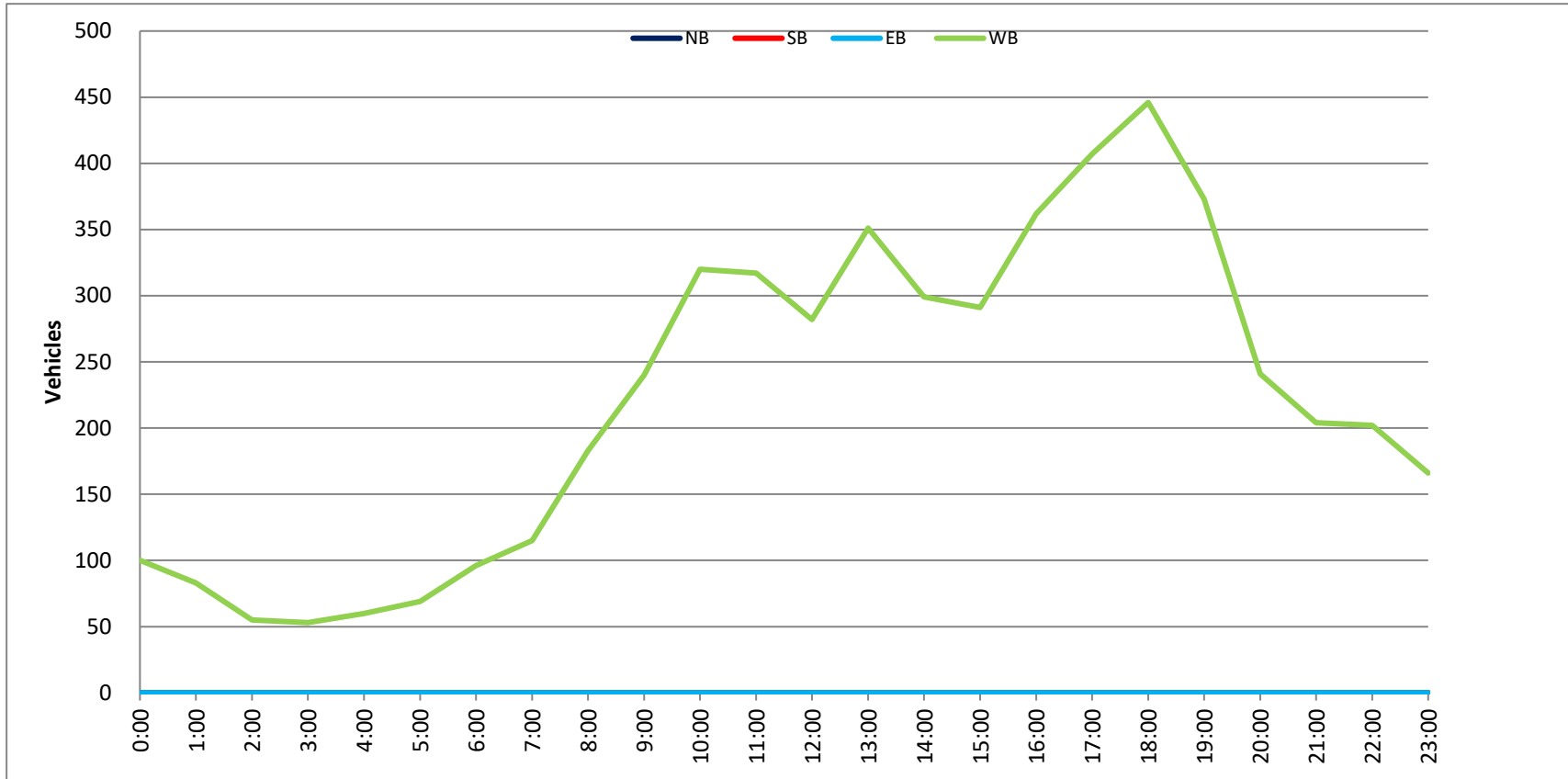


Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/27/2022

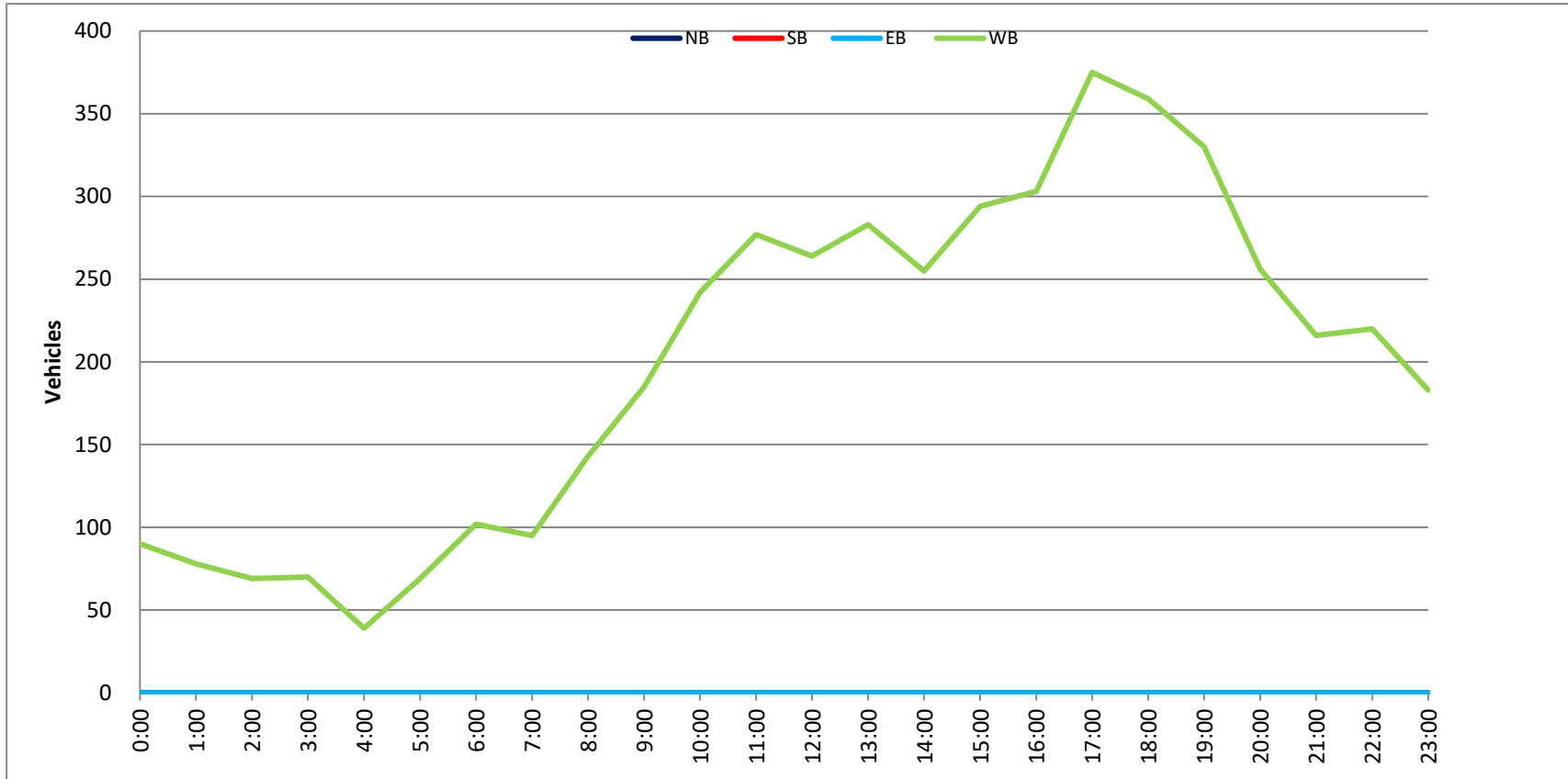


Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/28/2022

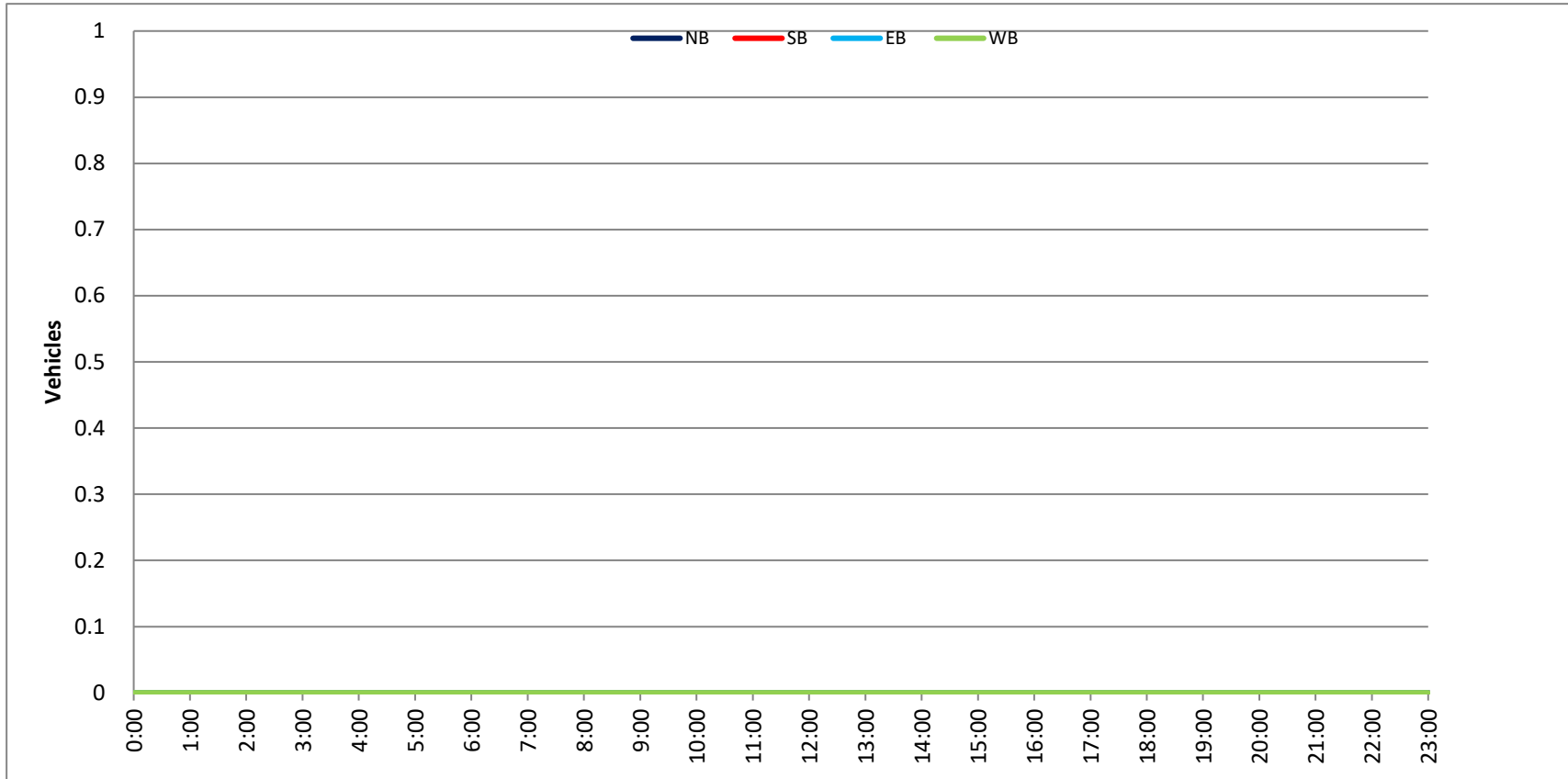


Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/29/2022

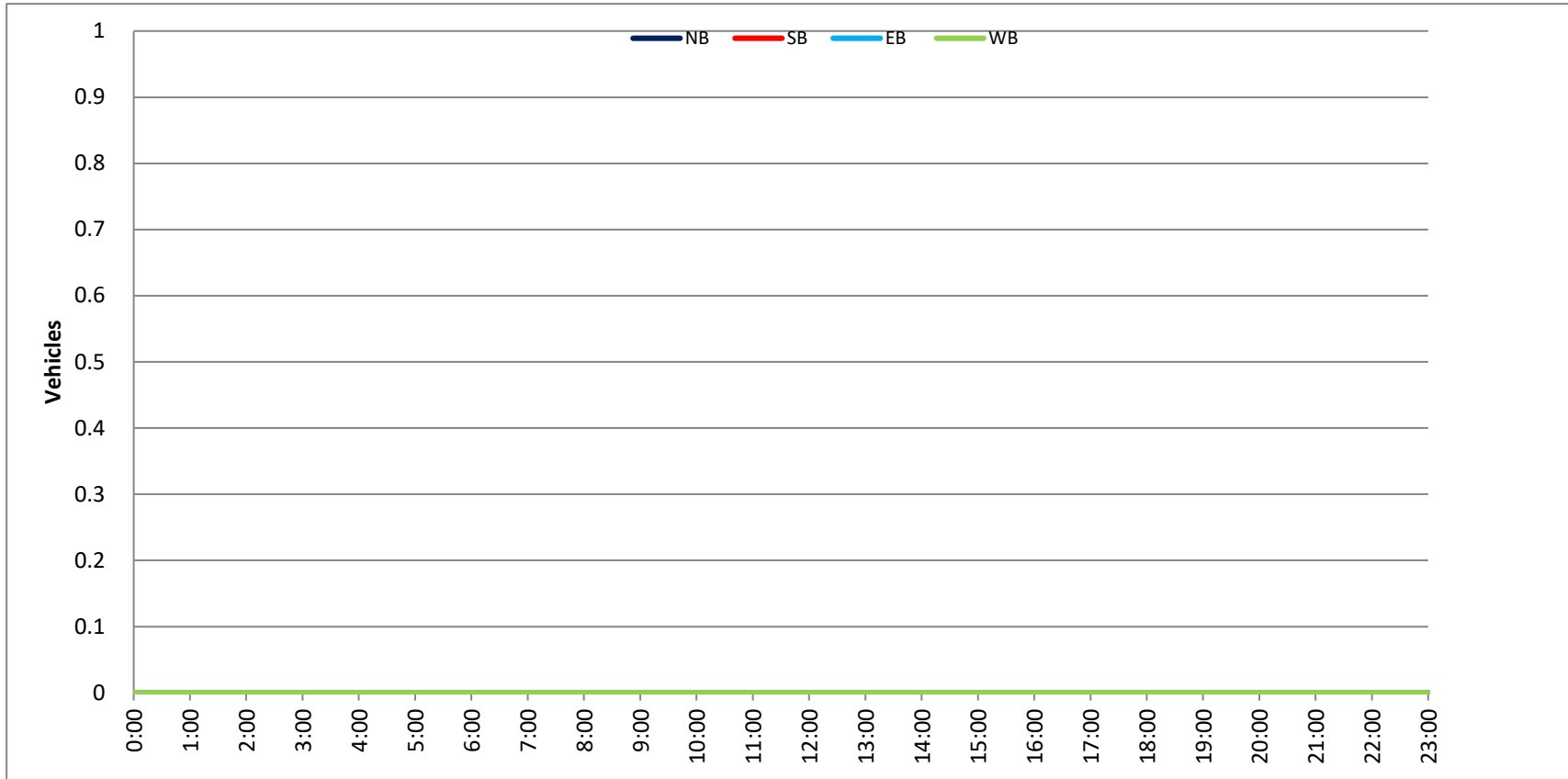


Project #: CA22_040057_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 4/30/2022



VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Saturday
Date: 4/16/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	1,726	0	1,726

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			41	0	41	12:00			19	0	19
0:15			17	0	17	12:15			19	0	19
0:30			25	0	25	12:30			18	0	18
0:45			22	105	22 105	12:45			15	71	15 71
1:00			28	0	28	13:00			14	0	14
1:15			10	0	10	13:15			25	0	25
1:30			26	0	26	13:30			13	0	13
1:45			26	90	26 90	13:45			17	69	17 69
2:00			26	0	26	14:00			19	0	19
2:15			18	0	18	14:15			26	0	26
2:30			18	0	18	14:30			19	0	19
2:45			28	90	28 90	14:45			22	86	22 86
3:00			7	0	7	15:00			21	0	21
3:15			18	0	18	15:15			18	0	18
3:30			11	0	11	15:30			23	0	23
3:45			14	50	14 50	15:45			28	90	28 90
4:00			11	0	11	16:00			19	0	19
4:15			11	0	11	16:15			23	0	23
4:30			8	0	8	16:30			16	0	16
4:45			17	47	17 47	16:45			17	75	17 75
5:00			13	0	13	17:00			21	0	21
5:15			13	0	13	17:15			25	0	25
5:30			9	0	9	17:30			12	0	12
5:45			8	43	8 43	17:45			24	82	24 82
6:00			3	0	3	18:00			21	0	21
6:15			13	0	13	18:15			18	0	18
6:30			13	0	13	18:30			18	0	18
6:45			6	35	6 35	18:45			20	77	20 77
7:00			9	0	9	19:00			21	0	21
7:15			13	0	13	19:15			27	0	27
7:30			11	0	11	19:30			29	0	29
7:45			3	36	3 36	19:45			25	102	25 102
8:00			11	0	11	20:00			28	0	28
8:15			8	0	8	20:15			28	0	28
8:30			10	0	10	20:30			21	0	21
8:45			4	33	4 33	20:45			34	111	34 111
9:00			8	0	8	21:00			18	0	18
9:15			5	0	5	21:15			37	0	37
9:30			7	0	7	21:30			21	0	21
9:45			8	28	8 28	21:45			21	97	21 97
10:00			9	0	9	22:00			39	0	39
10:15			7	0	7	22:15			17	0	17
10:30			8	0	8	22:30			24	0	24
10:45			10	34	10 34	22:45			22	102	22 102
11:00			10	0	10	23:00			23	0	23
11:15			12	0	12	23:15			31	0	31
11:30			13	0	13	23:30			30	0	30
11:45			12	47	12 47	23:45			42	126	42 126
TOTALS			638		638	TOTALS			1088		1088
SPLIT %			100.0%		37.0%	SPLIT %			100.0%		63.0%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	1,726	0	1,726

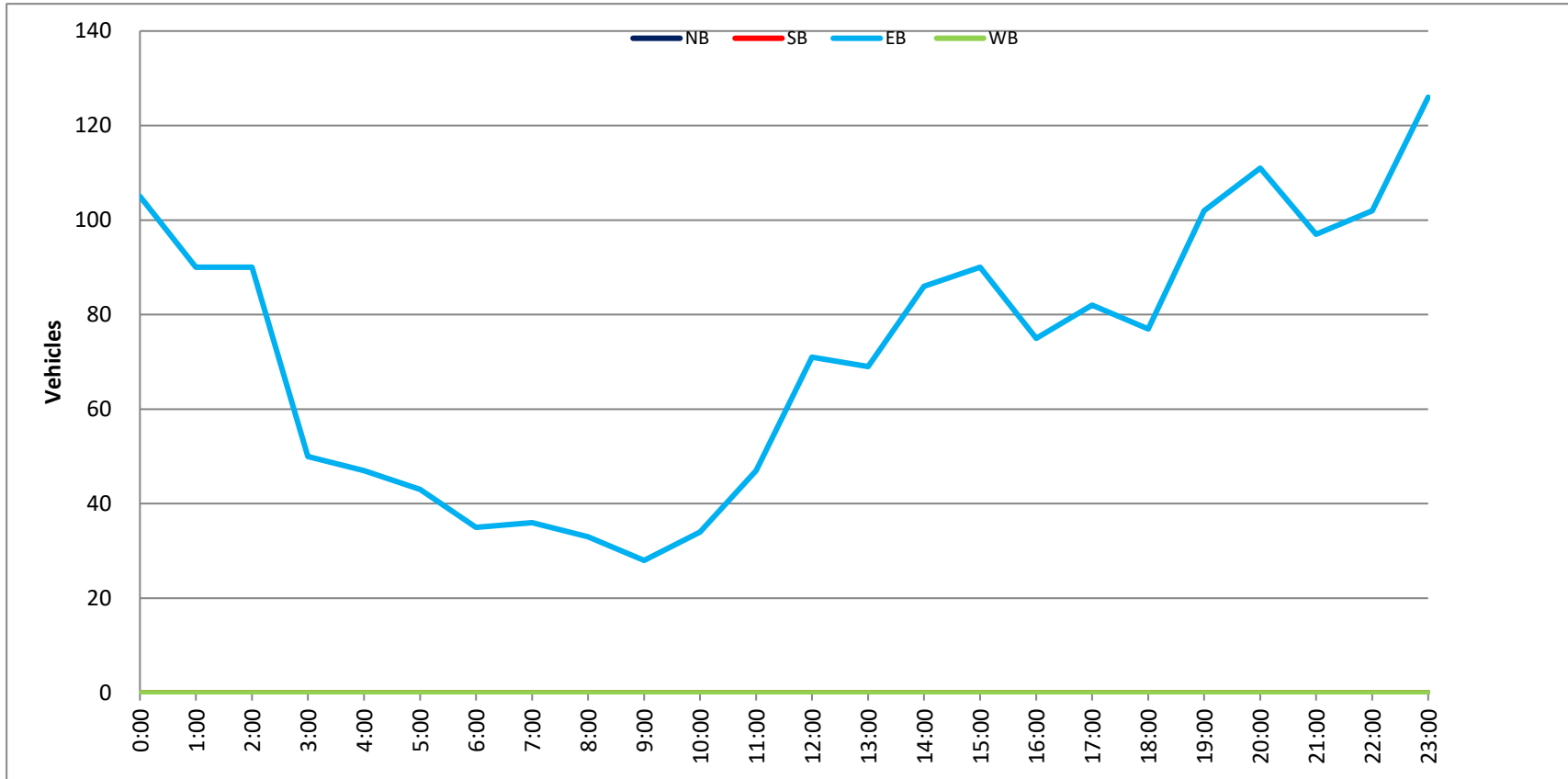
AM Peak Hour						PM Peak Hour	23:00	23:00
AM Pk Volume			105		105	PM Pk Volume	126	126
Pk Hr Factor			0.640		0.640	Pk Hr Factor	0.750	0.750
7 - 9 Volume	0	0	69	0	69	4 - 6 Volume	0	157
7 - 9 Peak Hour			7:15		7:15	4 - 6 Peak Hour	17:00	17:00
7 - 9 Pk Volume	0	0	38	0	38	4 - 6 Pk Volume	82	82
Pk Hr Factor	0.000	0.000	0.731	0.000	0.731	Pk Hr Factor	0.820	0.820

Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/16/2022



VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Tuesday
Date: 4/19/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,321	0	1,321		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			18	0	18	12:00			16	0	16
0:15			21	0	21	12:15			14	0	14
0:30			29	0	29	12:30			16	0	16
0:45			19	87	19	12:45			23	69	23
1:00			20	0	20	13:00			17	0	17
1:15			11	0	11	13:15			14	0	14
1:30			17	0	17	13:30			16	0	16
1:45			15	63	15	13:45			17	64	17
2:00			8	0	8	14:00			14	0	14
2:15			12	0	12	14:15			23	0	23
2:30			22	0	22	14:30			21	0	21
2:45			13	55	13	14:45			14	72	14
3:00			19	0	19	15:00			16	0	16
3:15			13	0	13	15:15			14	0	14
3:30			8	0	8	15:30			21	0	21
3:45			13	53	13	15:45			12	63	12
4:00			11	0	11	16:00			18	0	18
4:15			8	0	8	16:15			15	0	15
4:30			4	0	4	16:30			16	0	16
4:45			5	28	5	16:45			12	61	12
5:00			9	0	9	17:00			21	0	21
5:15			5	0	5	17:15			13	0	13
5:30			5	0	5	17:30			9	0	9
5:45			7	26	7	17:45			11	54	11
6:00			4	0	4	18:00			12	0	12
6:15			2	0	2	18:15			12	0	12
6:30			10	0	10	18:30			16	0	16
6:45			7	23	7	18:45			21	61	21
7:00			11	0	11	19:00			19	0	19
7:15			7	0	7	19:15			20	0	20
7:30			8	0	8	19:30			24	0	24
7:45			6	32	6	19:45			22	85	22
8:00			3	0	3	20:00			24	0	24
8:15			9	0	9	20:15			16	0	16
8:30			9	0	9	20:30			18	0	18
8:45			6	27	6	20:45			20	78	20
9:00			6	0	6	21:00			17	0	17
9:15			6	0	6	21:15			18	0	18
9:30			7	0	7	21:30			18	0	18
9:45			5	24	5	21:45			24	77	24
10:00			7	0	7	22:00			24	0	24
10:15			5	0	5	22:15			15	0	15
10:30			3	0	3	22:30			26	0	26
10:45			11	26	11	22:45			13	78	13
11:00			8	0	8	23:00			18	0	18
11:15			15	0	15	23:15			10	0	10
11:30			11	0	11	23:30			22	0	22
11:45			13	47	13	23:45			18	68	18
TOTALS			491		491	TOTALS			830		830
SPLIT %			100.0%		37.2%	SPLIT %			100.0%		62.8%

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,321	0	1,321		
AM Peak Hour			0:15		0:15	PM Peak Hour			19:15		19:15
AM Pk Volume			89		89	PM Pk Volume			90		90
Pk Hr Factor			0.767		0.767	Pk Hr Factor			0.938		0.938
7 - 9 Volume	0	0	59	0	59	4 - 6 Volume	0	0	115	0	115
7 - 9 Peak Hour			7:00		7:00	4 - 6 Peak Hour			16:15		16:15
7 - 9 Pk Volume	0	0	32	0	32	4 - 6 Pk Volume	0	0	64	0	64
Pk Hr Factor	0.000	0.000	0.727	0.000	0.727	Pk Hr Factor	0.000	0.000	0.762	0.000	0.762

VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Wednesday
Date: 4/20/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	1,405	0	1,405

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL	
0:00			18	0	18	12:00			12	0	12	
0:15			19	0	19	12:15			22	0	22	
0:30			19	0	19	12:30			20	0	20	
0:45			13	69	13 69	12:45			16	70	16 70	
1:00			14	0	14	13:00			20	0	20	
1:15			11	0	11	13:15			14	0	14	
1:30			18	0	18	13:30			18	0	18	
1:45			16	59	16 59	13:45			20	72	20 72	
2:00			7	0	7	14:00			16	0	16	
2:15			12	0	12	14:15			27	0	27	
2:30			12	0	12	14:30			21	0	21	
2:45			12	43	12 43	14:45			20	84	20 84	
3:00			9	0	9	15:00			26	0	26	
3:15			12	0	12	15:15			18	0	18	
3:30			11	0	11	15:30			24	0	24	
3:45			9	41	9 41	15:45			26	94	26 94	
4:00			13	0	13	16:00			15	0	15	
4:15			10	0	10	16:15			17	0	17	
4:30			15	0	15	16:30			18	0	18	
4:45			5	43	5 43	16:45			14	64	14 64	
5:00			5	0	5	17:00			20	0	20	
5:15			9	0	9	17:15			17	0	17	
5:30			1	0	1	17:30			12	0	12	
5:45			6	21	6 21	17:45			21	70	21 70	
6:00			6	0	6	18:00			20	0	20	
6:15			4	0	4	18:15			15	0	15	
6:30			7	0	7	18:30			17	0	17	
6:45			3	20	3 20	18:45			25	77	25 77	
7:00			3	0	3	19:00			31	0	31	
7:15			4	0	4	19:15			21	0	21	
7:30			9	0	9	19:30			15	0	15	
7:45			10	26	10 26	19:45			23	90	23 90	
8:00			5	0	5	20:00			16	0	16	
8:15			9	0	9	20:15			22	0	22	
8:30			4	0	4	20:30			18	0	18	
8:45			14	32	14 32	20:45			23	79	23 79	
9:00			5	0	5	21:00			22	0	22	
9:15			9	0	9	21:15			16	0	16	
9:30			3	0	3	21:30			18	0	18	
9:45			9	26	9 26	21:45			17	73	17 73	
10:00			6	0	6	22:00			14	0	14	
10:15			9	0	9	22:15			21	0	21	
10:30			10	0	10	22:30			17	0	17	
10:45			9	34	9 34	22:45			15	67	15 67	
11:00			10	0	10	23:00			29	0	29	
11:15			14	0	14	23:15			30	0	30	
11:30			5	0	5	23:30			24	0	24	
11:45			16	45	16 45	23:45			23	106	23 106	
TOTALS					459	459	TOTALS					946
SPLIT %					100.0%	32.7%	SPLIT %					100.0%
DAILY TOTALS				NB	SB	EB	WB	Total				
				0	0	1,405	0	1,405				

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	1,405	0	1,405

AM Peak Hour			11:45		11:45	PM Peak Hour			23:00		23:00
AM Pk Volume			70		70	PM Pk Volume			106		106
Pk Hr Factor			0.795		0.795	Pk Hr Factor			0.883		0.883
7 - 9 Volume	0	0	58	0	58	4 - 6 Volume	0	0	134	0	134
7 - 9 Peak Hour			7:30		7:30	4 - 6 Peak Hour			17:00		17:00
7 - 9 Pk Volume	0	0	33	0	33	4 - 6 Pk Volume	0	0	70	0	70
Pk Hr Factor	0.000	0.000	0.825	0.000	0.825	Pk Hr Factor	0.000	0.000	0.833	0.000	0.833

VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Thursday
Date: 4/21/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,279	0	1,279		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			23	0	23	12:00			13	0	13
0:15			17	0	17	12:15			4	0	4
0:30			18	0	18	12:30			17	0	17
0:45			15	73	15 73	12:45			13	47	13 47
1:00			17	0	17	13:00			15	0	15
1:15			17	0	17	13:15			21	0	21
1:30			19	0	19	13:30			21	0	21
1:45			12	65	12 65	13:45			13	70	13 70
2:00			14	0	14	14:00			15	0	15
2:15			15	0	15	14:15			16	0	16
2:30			9	0	9	14:30			20	0	20
2:45			17	55	17 55	14:45			13	64	13 64
3:00			11	0	11	15:00			17	0	17
3:15			5	0	5	15:15			18	0	18
3:30			16	0	16	15:30			16	0	16
3:45			13	45	13 45	15:45			15	66	15 66
4:00			15	0	15	16:00			7	0	7
4:15			7	0	7	16:15			14	0	14
4:30			10	0	10	16:30			19	0	19
4:45			5	37	5 37	16:45			19	59	19 59
5:00			7	0	7	17:00			19	0	19
5:15			9	0	9	17:15			13	0	13
5:30			3	0	3	17:30			13	0	13
5:45			3	22	3 22	17:45			14	59	14 59
6:00			6	0	6	18:00			11	0	11
6:15			5	0	5	18:15			17	0	17
6:30			4	0	4	18:30			19	0	19
6:45			7	22	7 22	18:45			13	60	13 60
7:00			5	0	5	19:00			14	0	14
7:15			5	0	5	19:15			20	0	20
7:30			10	0	10	19:30			20	0	20
7:45			2	22	2 22	19:45			23	77	23 77
8:00			7	0	7	20:00			14	0	14
8:15			3	0	3	20:15			16	0	16
8:30			11	0	11	20:30			26	0	26
8:45			10	31	10 31	20:45			26	82	26 82
9:00			5	0	5	21:00			19	0	19
9:15			1	0	1	21:15			25	0	25
9:30			4	0	4	21:30			16	0	16
9:45			7	17	7 17	21:45			22	82	22 82
10:00			11	0	11	22:00			17	0	17
10:15			9	0	9	22:15			18	0	18
10:30			8	0	8	22:30			19	0	19
10:45			7	35	7 35	22:45			17	71	17 71
11:00			8	0	8	23:00			21	0	21
11:15			7	0	7	23:15			16	0	16
11:30			15	0	15	23:30			20	0	20
11:45			15	45	15 45	23:45			16	73	16 73
TOTALS			469		469	TOTALS			810		810
SPLIT %			100.0%		36.7%	SPLIT %			100.0%		63.3%

DAILY TOTALS					NB	SB	EB	WB	Total	
					0	0	1,279	0	1,279	
AM Peak Hour						PM Peak Hour			20:30	20:30
AM Pk Volume			73		73	PM Pk Volume			96	96
Pk Hr Factor			0.793		0.793	Pk Hr Factor			0.923	0.923
7 - 9 Volume	0	0	53	0	53	4 - 6 Volume	0	0	118	118
7 - 9 Peak Hour			8:00		8:00	4 - 6 Peak Hour			16:15	16:15
7 - 9 Pk Volume	0	0	31	0	31	4 - 6 Pk Volume	0	0	71	71
Pk Hr Factor	0.000	0.000	0.705	0.000	0.705	Pk Hr Factor	0.000	0.000	0.934	0.934

VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Friday
Date: 4/22/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,312	0	1,312		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			18	0	18	12:00			12	0	12
0:15			12	0	12	12:15			16	0	16
0:30			16	0	16	12:30			7	0	7
0:45			23	69	23 69	12:45			12	47	12 47
1:00			27	0	27	13:00			10	0	10
1:15			10	0	10	13:15			9	0	9
1:30			17	0	17	13:30			11	0	11
1:45			9	63	9 63	13:45			14	44	14 44
2:00			14	0	14	14:00			17	0	17
2:15			13	0	13	14:15			15	0	15
2:30			13	0	13	14:30			12	0	12
2:45			8	48	8 48	14:45			13	57	13 57
3:00			14	0	14	15:00			6	0	6
3:15			11	0	11	15:15			18	0	18
3:30			7	0	7	15:30			18	0	18
3:45			6	38	6 38	15:45			18	60	18 60
4:00			9	0	9	16:00			17	0	17
4:15			11	0	11	16:15			9	0	9
4:30			15	0	15	16:30			18	0	18
4:45			8	43	8 43	16:45			20	64	20 64
5:00			10	0	10	17:00			14	0	14
5:15			13	0	13	17:15			20	0	20
5:30			8	0	8	17:30			20	0	20
5:45			9	40	9 40	17:45			22	76	22 76
6:00			8	0	8	18:00			18	0	18
6:15			6	0	6	18:15			19	0	19
6:30			12	0	12	18:30			12	0	12
6:45			4	30	4 30	18:45			16	65	16 65
7:00			8	0	8	19:00			13	0	13
7:15			5	0	5	19:15			16	0	16
7:30			8	0	8	19:30			20	0	20
7:45			3	24	3 24	19:45			21	70	21 70
8:00			2	0	2	20:00			19	0	19
8:15			5	0	5	20:15			19	0	19
8:30			8	0	8	20:30			17	0	17
8:45			5	20	5 20	20:45			13	68	13 68
9:00			7	0	7	21:00			25	0	25
9:15			6	0	6	21:15			21	0	21
9:30			10	0	10	21:30			21	0	21
9:45			9	32	9 32	21:45			21	88	21 88
10:00			13	0	13	22:00			24	0	24
10:15			11	0	11	22:15			22	0	22
10:30			7	0	7	22:30			17	0	17
10:45			10	41	10 41	22:45			27	90	27 90
11:00			7	0	7	23:00			27	0	27
11:15			11	0	11	23:15			28	0	28
11:30			6	0	6	23:30			27	0	27
11:45			9	33	9 33	23:45			20	102	20 102
TOTALS			481		481	TOTALS			831		831
SPLIT %			100.0%		36.7%	SPLIT %			100.0%		63.3%

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,312	0	1,312		
AM Peak Hour			0:15		0:15	PM Peak Hour			22:45		22:45
AM Pk Volume			78		78	PM Pk Volume			109		109
Pk Hr Factor			0.722		0.722	Pk Hr Factor			0.973		0.973
7 - 9 Volume	0	0	44	0	44	4 - 6 Volume	0	0	140	0	140
7 - 9 Peak Hour			7:00		7:00	4 - 6 Peak Hour			17:00		17:00
7 - 9 Pk Volume	0	0	24	0	24	4 - 6 Pk Volume	0	0	76	0	76
Pk Hr Factor	0.000	0.000	0.750	0.000	0.750	Pk Hr Factor	0.000	0.000	0.864	0.000	0.864

VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Saturday
Date: 4/23/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,703	0	1,703		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			18	0	18	12:00			19	0	19
0:15			22	0	22	12:15			20	0	20
0:30			23	0	23	12:30			21	0	21
0:45			23	86	23	12:45			25	85	25
1:00			25	0	25	13:00			17	0	17
1:15			28	0	28	13:15			16	0	16
1:30			27	0	27	13:30			17	0	17
1:45			19	99	19	13:45			25	75	25
2:00			15	0	15	14:00			20	0	20
2:15			22	0	22	14:15			21	0	21
2:30			19	0	19	14:30			19	0	19
2:45			23	79	23	14:45			19	79	19
3:00			24	0	24	15:00			19	0	19
3:15			14	0	14	15:15			17	0	17
3:30			11	0	11	15:30			29	0	29
3:45			23	72	23	15:45			19	84	19
4:00			14	0	14	16:00			23	0	23
4:15			11	0	11	16:15			22	0	22
4:30			21	0	21	16:30			18	0	18
4:45			13	59	13	16:45			26	89	26
5:00			11	0	11	17:00			25	0	25
5:15			10	0	10	17:15			20	0	20
5:30			7	0	7	17:30			15	0	15
5:45			5	33	5	17:45			19	79	19
6:00			11	0	11	18:00			23	0	23
6:15			8	0	8	18:15			16	0	16
6:30			11	0	11	18:30			16	0	16
6:45			13	43	13	18:45			16	71	16
7:00			8	0	8	19:00			16	0	16
7:15			7	0	7	19:15			18	0	18
7:30			7	0	7	19:30			25	0	25
7:45			14	36	14	19:45			25	84	25
8:00			12	0	12	20:00			17	0	17
8:15			7	0	7	20:15			24	0	24
8:30			6	0	6	20:30			19	0	19
8:45			5	30	5	20:45			30	90	30
9:00			9	0	9	21:00			24	0	24
9:15			5	0	5	21:15			21	0	21
9:30			8	0	8	21:30			32	0	32
9:45			7	29	7	21:45			23	100	23
10:00			5	0	5	22:00			29	0	29
10:15			7	0	7	22:15			39	0	39
10:30			9	0	9	22:30			22	0	22
10:45			12	33	12	22:45			28	118	28
11:00			12	0	12	23:00			21	0	21
11:15			14	0	14	23:15			27	0	27
11:30			18	0	18	23:30			28	0	28
11:45			15	59	15	23:45			15	91	15
TOTALS			658		658	TOTALS			1045		1045
SPLIT %			100.0%		38.6%	SPLIT %			100.0%		61.4%

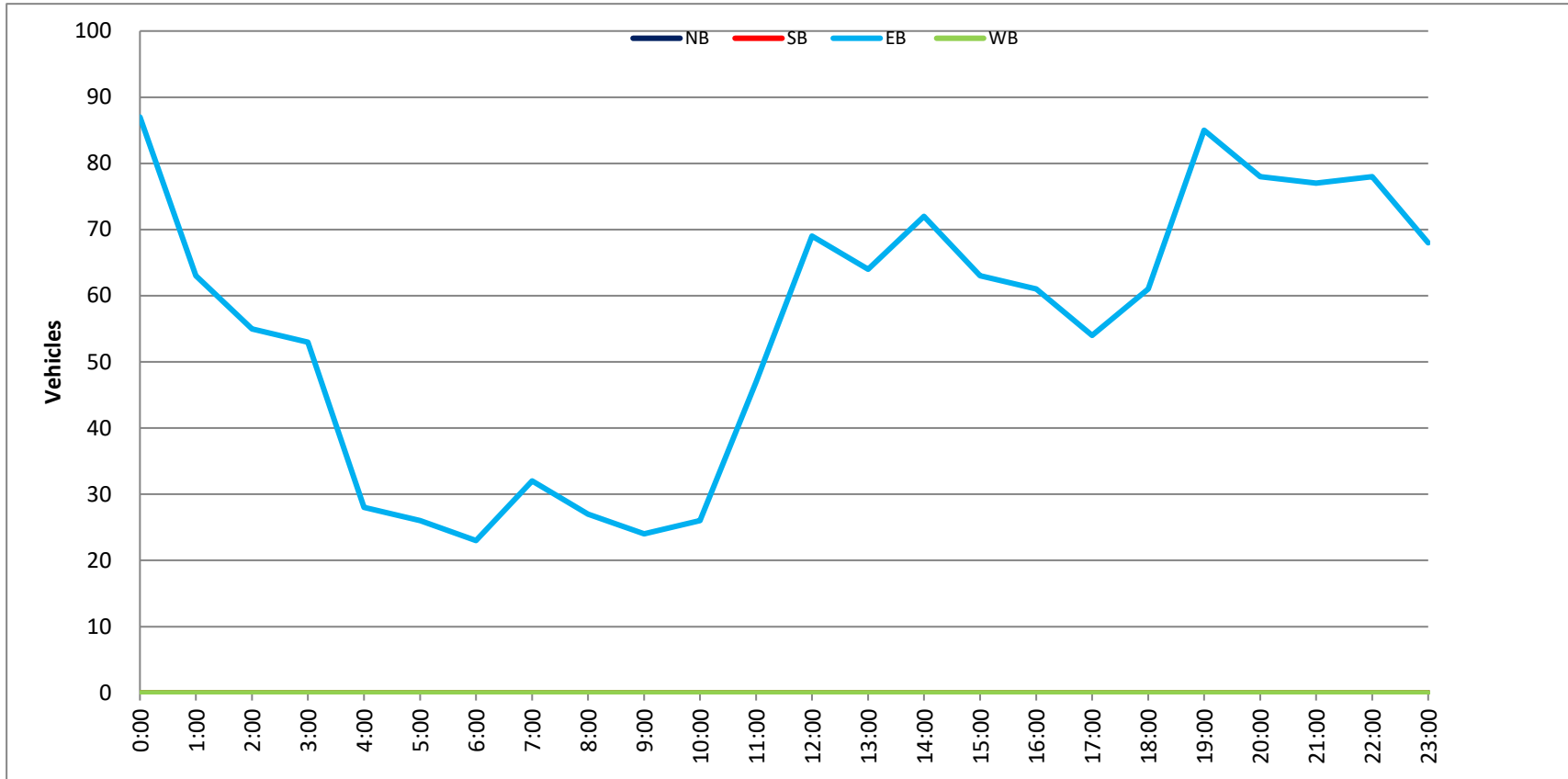
DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,703	0	1,703		
AM Peak Hour			0:45		0:45	PM Peak Hour			21:30		21:30
AM Pk Volume			103		103	PM Pk Volume			123		123
Pk Hr Factor			0.920		0.920	Pk Hr Factor			0.788		0.788
7 - 9 Volume	0	0	66	0	66	4 - 6 Volume	0	0	168	0	168
7 - 9 Peak Hour			7:15		7:15	4 - 6 Peak Hour			16:15		16:15
7 - 9 Pk Volume	0	0	40	0	40	4 - 6 Pk Volume	0	0	91	0	91
Pk Hr Factor	0.000	0.000	0.714	0.000	0.714	Pk Hr Factor	0.000	0.000	0.875	0.000	0.875

Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/19/2022

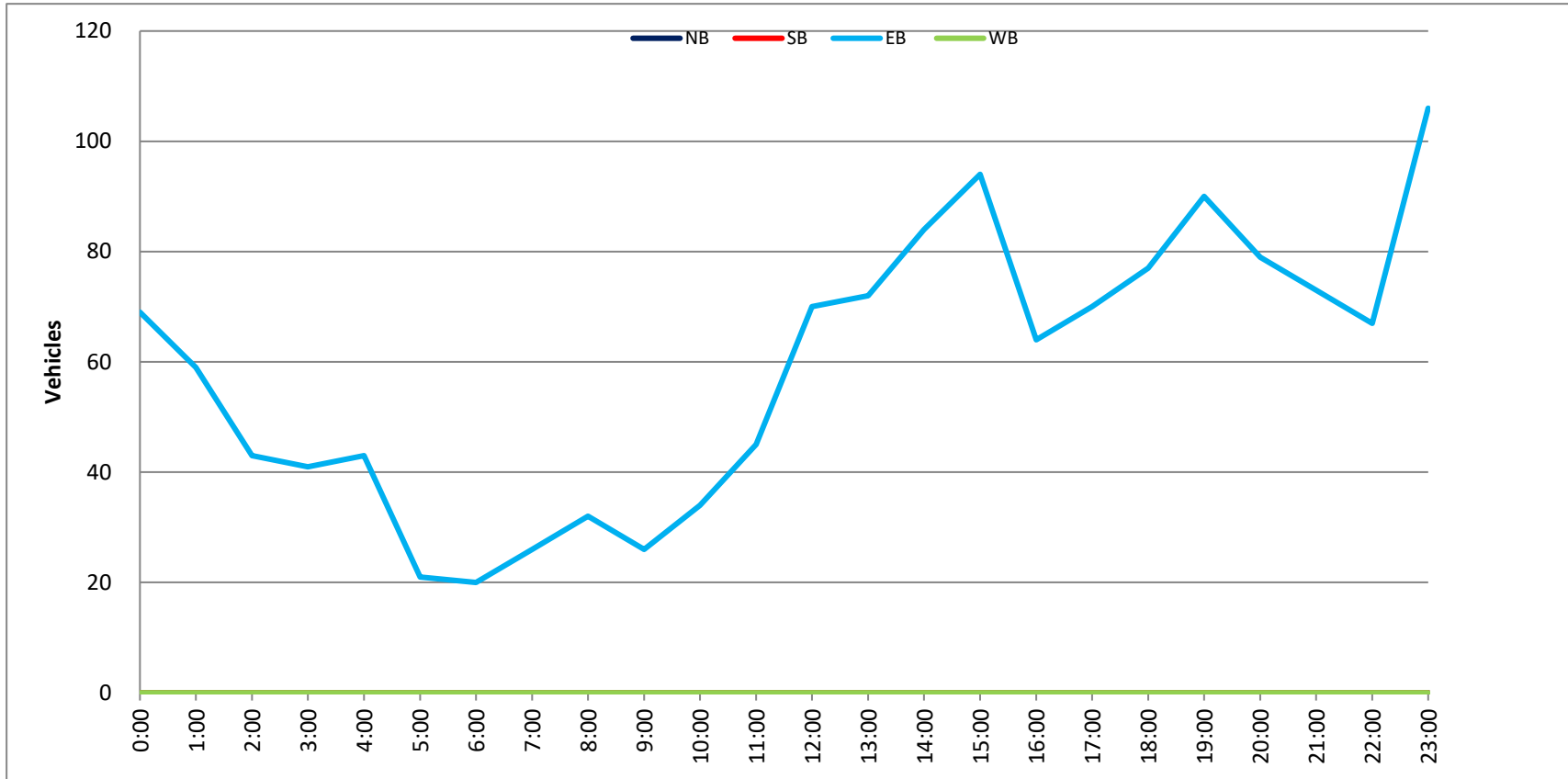


Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/20/2022

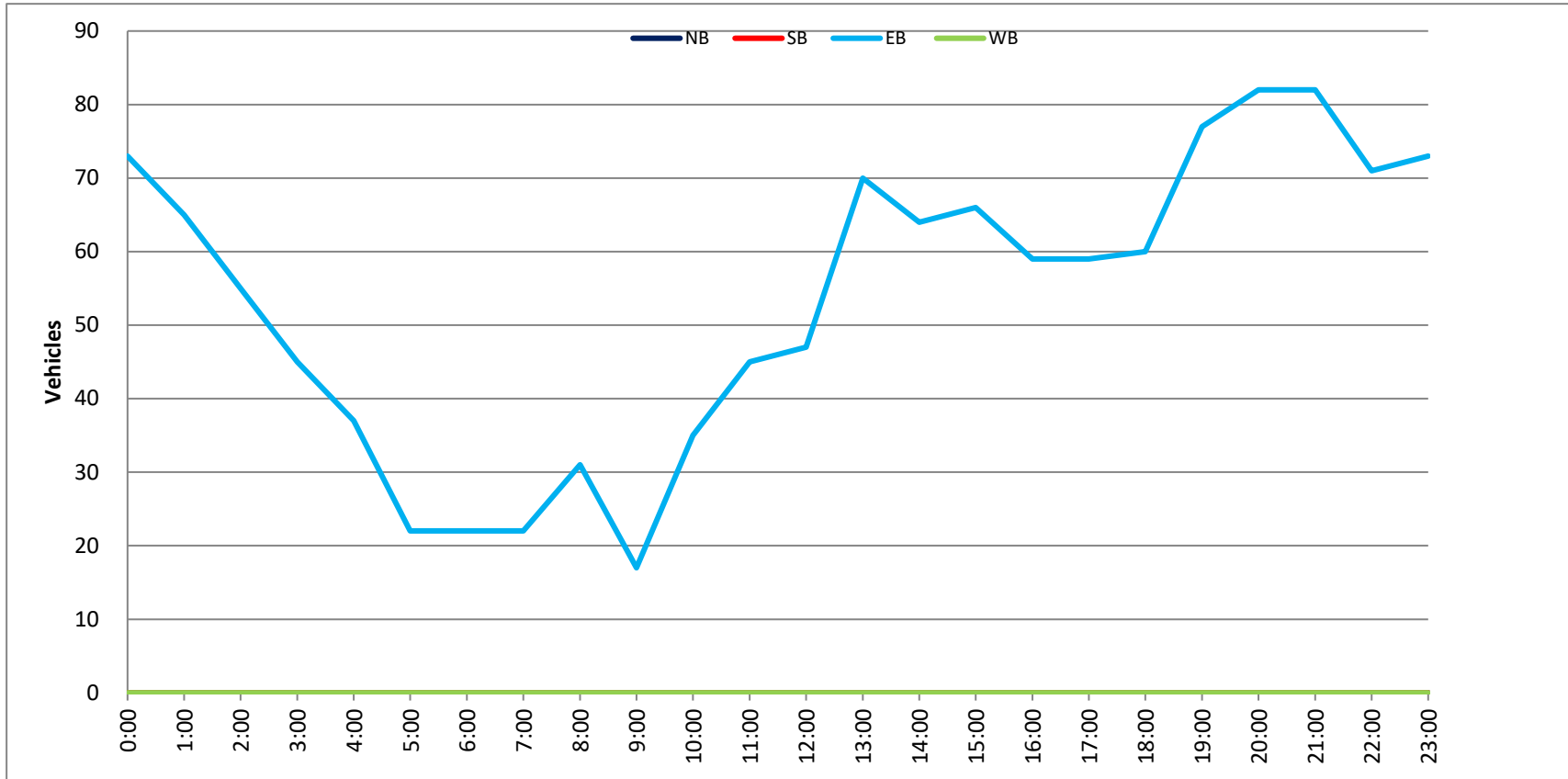


Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/21/2022

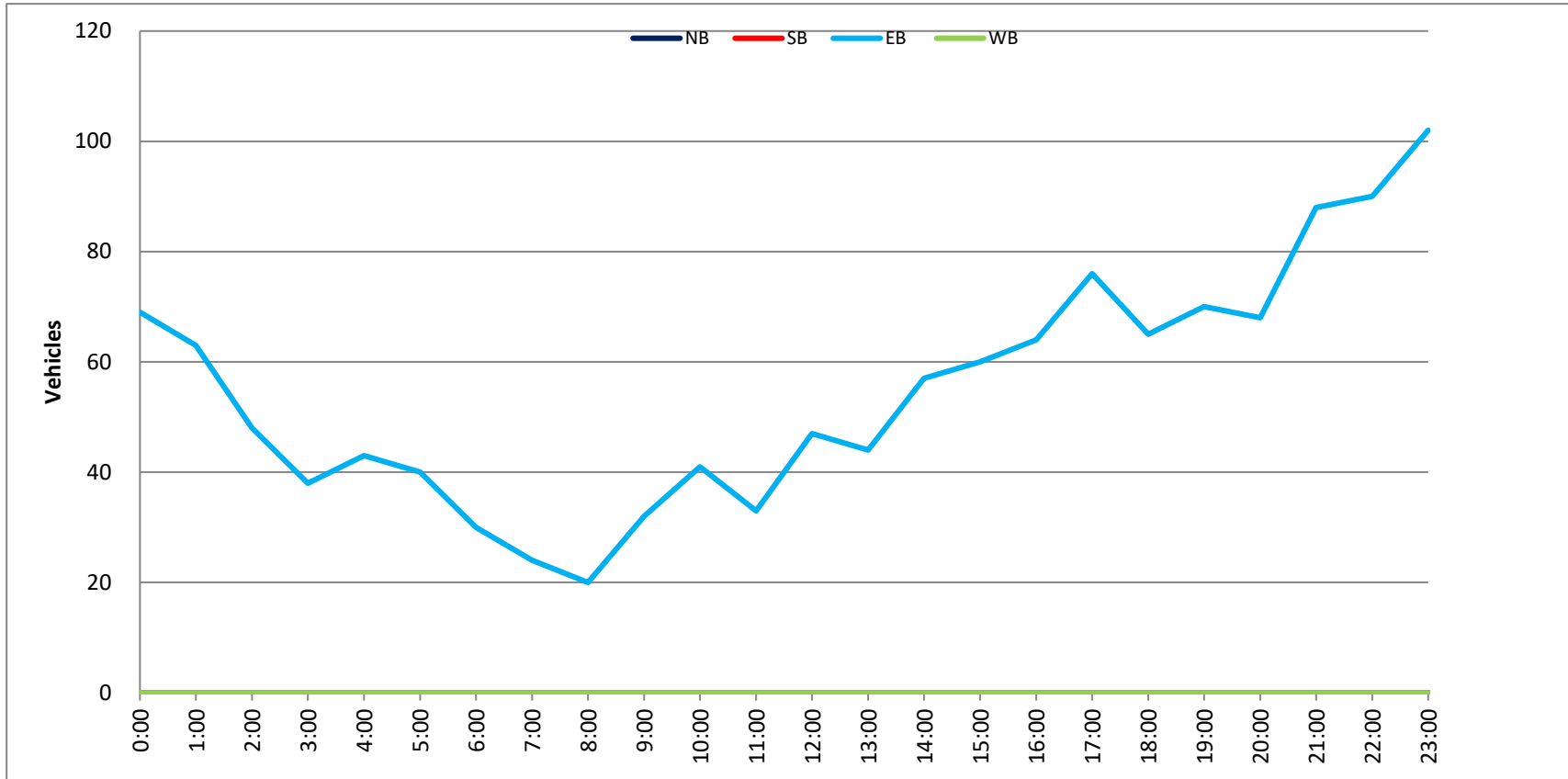


Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/22/2022

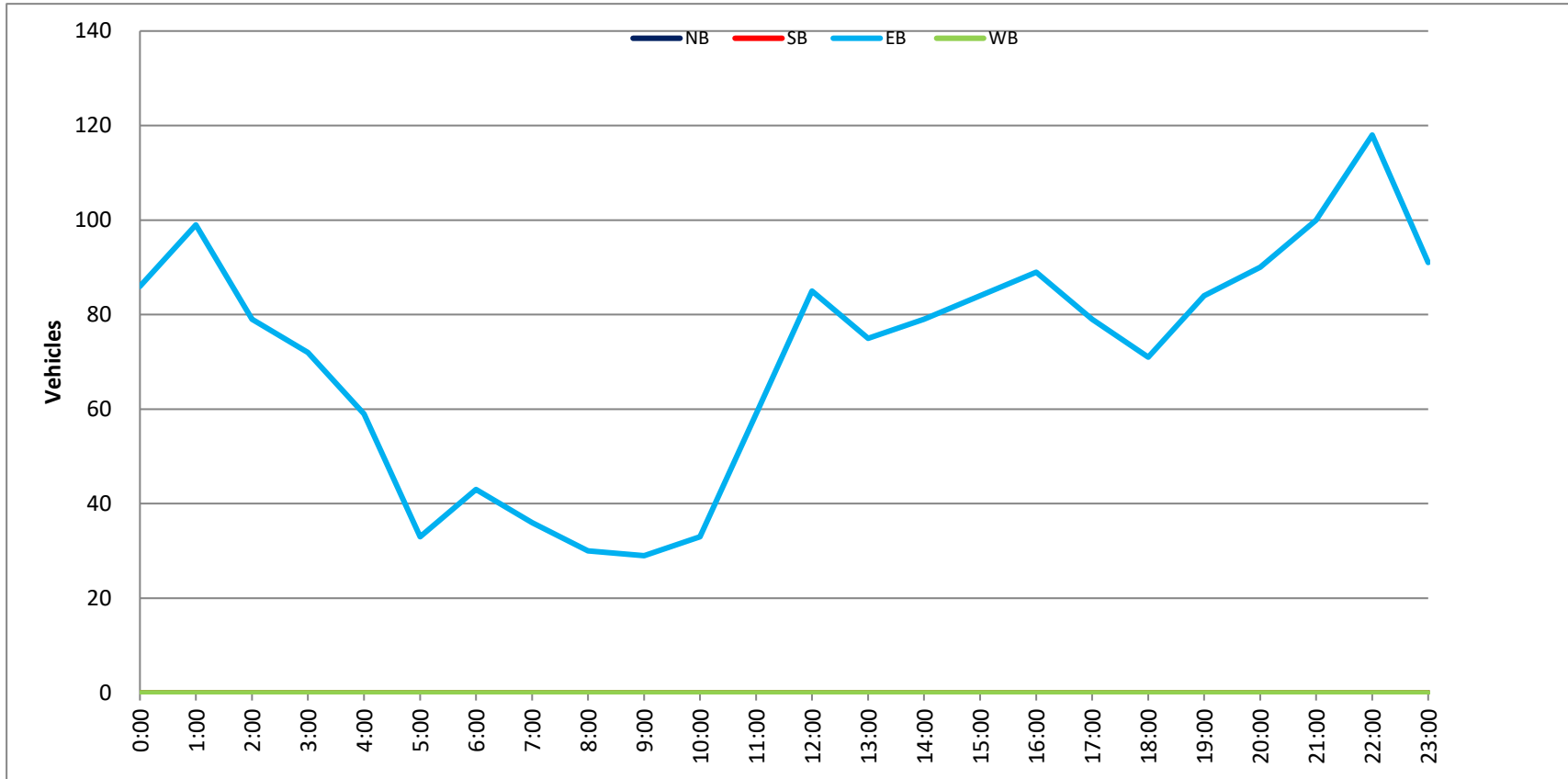


Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/23/2022



VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Tuesday
Date: 4/26/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,170	0	1,170		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			7	0	7	12:00			21	0	21
0:15			16	0	16	12:15			10	0	10
0:30			22	0	22	12:30			16	0	16
0:45			21	66	21 66	12:45			11	58	11 58
1:00			13	0	13	13:00			14	0	14
1:15			14	0	14	13:15			13	0	13
1:30			9	0	9	13:30			15	0	15
1:45			16	52	16 52	13:45			15	57	15 57
2:00			13	0	13	14:00			14	0	14
2:15			12	0	12	14:15			17	0	17
2:30			10	0	10	14:30			17	0	17
2:45			13	48	13 48	14:45			18	66	18 66
3:00			13	0	13	15:00			19	0	19
3:15			7	0	7	15:15			16	0	16
3:30			14	0	14	15:30			16	0	16
3:45			11	45	11 45	15:45			18	69	18 69
4:00			4	0	4	16:00			10	0	10
4:15			17	0	17	16:15			16	0	16
4:30			8	0	8	16:30			11	0	11
4:45			6	35	6 35	16:45			6	43	6 43
5:00			4	0	4	17:00			16	0	16
5:15			7	0	7	17:15			11	0	11
5:30			10	0	10	17:30			10	0	10
5:45			8	29	8 29	17:45			19	56	19 56
6:00			5	0	5	18:00			19	0	19
6:15			12	0	12	18:15			11	0	11
6:30			10	0	10	18:30			8	0	8
6:45			5	32	5 32	18:45			21	59	21 59
7:00			8	0	8	19:00			24	0	24
7:15			8	0	8	19:15			12	0	12
7:30			14	0	14	19:30			15	0	15
7:45			5	35	5 35	19:45			8	59	8 59
8:00			4	0	4	20:00			23	0	23
8:15			5	0	5	20:15			19	0	19
8:30			7	0	7	20:30			15	0	15
8:45			9	25	9 25	20:45			10	67	10 67
9:00			5	0	5	21:00			17	0	17
9:15			3	0	3	21:15			24	0	24
9:30			6	0	6	21:30			14	0	14
9:45			9	23	9 23	21:45			14	69	14 69
10:00			13	0	13	22:00			5	0	5
10:15			7	0	7	22:15			12	0	12
10:30			4	0	4	22:30			19	0	19
10:45			10	34	10 34	22:45			10	46	10 46
11:00			7	0	7	23:00			11	0	11
11:15			9	0	9	23:15			18	0	18
11:30			8	0	8	23:30			19	0	19
11:45			11	35	11 35	23:45			14	62	14 62
TOTALS			459		459	TOTALS			711		711
SPLIT %			100.0%		39.2%	SPLIT %			100.0%		60.8%

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,170	0	1,170		
AM Peak Hour			0:15		0:15	PM Peak Hour			18:45		18:45
AM Pk Volume			72		72	PM Pk Volume			72		72
Pk Hr Factor			0.818		0.818	Pk Hr Factor			0.750		0.750
7 - 9 Volume	0	0	60	0	60	4 - 6 Volume	0	0	99	0	99
7 - 9 Peak Hour			7:00		7:00	4 - 6 Peak Hour			17:00		17:00
7 - 9 Pk Volume	0	0	35	0	35	4 - 6 Pk Volume	0	0	56	0	56
Pk Hr Factor	0.000	0.000	0.625	0.000	0.625	Pk Hr Factor	0.000	0.000	0.737	0.000	0.737

VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Wednesday
Date: 4/27/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	1,422	0	1,422

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			22	0	22	12:00			20	0	20
0:15			32	0	32	12:15			11	0	11
0:30			19	0	19	12:30			3	0	3
0:45			24	97	24 97	12:45			22	56	22 56
1:00			25	0	25	13:00			15	0	15
1:15			14	0	14	13:15			16	0	16
1:30			17	0	17	13:30			24	0	24
1:45			23	79	23 79	13:45			24	79	24 79
2:00			16	0	16	14:00			18	0	18
2:15			17	0	17	14:15			21	0	21
2:30			15	0	15	14:30			18	0	18
2:45			17	65	17 65	14:45			12	69	12 69
3:00			11	0	11	15:00			15	0	15
3:15			4	0	4	15:15			21	0	21
3:30			12	0	12	15:30			20	0	20
3:45			11	38	11 38	15:45			16	72	16 72
4:00			12	0	12	16:00			11	0	11
4:15			15	0	15	16:15			13	0	13
4:30			12	0	12	16:30			20	0	20
4:45			8	47	8 47	16:45			11	55	11 55
5:00			8	0	8	17:00			21	0	21
5:15			5	0	5	17:15			20	0	20
5:30			4	0	4	17:30			10	0	10
5:45			9	26	9 26	17:45			9	60	9 60
6:00			12	0	12	18:00			19	0	19
6:15			8	0	8	18:15			19	0	19
6:30			4	0	4	18:30			21	0	21
6:45			2	26	2 26	18:45			16	75	16 75
7:00			5	0	5	19:00			15	0	15
7:15			5	0	5	19:15			16	0	16
7:30			5	0	5	19:30			12	0	12
7:45			6	21	6 21	19:45			17	60	17 60
8:00			5	0	5	20:00			31	0	31
8:15			5	0	5	20:15			29	0	29
8:30			14	0	14	20:30			21	0	21
8:45			6	30	6 30	20:45			25	106	25 106
9:00			9	0	9	21:00			13	0	13
9:15			8	0	8	21:15			18	0	18
9:30			10	0	10	21:30			24	0	24
9:45			5	32	5 32	21:45			16	71	16 71
10:00			6	0	6	22:00			25	0	25
10:15			9	0	9	22:15			19	0	19
10:30			11	0	11	22:30			25	0	25
10:45			15	41	15 41	22:45			30	99	30 99
11:00			10	0	10	23:00			13	0	13
11:15			11	0	11	23:15			14	0	14
11:30			9	0	9	23:30			25	0	25
11:45			10	40	10 40	23:45			26	78	26 78
TOTALS	542				542	TOTALS	880				880
SPLIT %	100.0%				38.1%	SPLIT %	100.0%				61.9%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	1,422	0	1,422

AM Peak Hour			0:15		0:15	PM Peak Hour			20:00		20:00
AM Pk Volume			100		100	PM Pk Volume			106		106
Pk Hr Factor			0.781		0.781	Pk Hr Factor			0.855		0.855
7 - 9 Volume	0	0	51	0	51	4 - 6 Volume	0	0	115	0	115
7 - 9 Peak Hour			7:45		7:45	4 - 6 Peak Hour			16:30		16:30
7 - 9 Pk Volume	0	0	30	0	30	4 - 6 Pk Volume	0	0	72	0	72
Pk Hr Factor	0.000	0.000	0.536	0.000	0.536	Pk Hr Factor	0.000	0.000	0.857	0.000	0.857

VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Thursday
Date: 4/28/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,267	0	1,267		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			31	0	31	12:00			19	0	19
0:15			17	0	17	12:15			12	0	12
0:30			18	0	18	12:30			11	0	11
0:45			21	87	21 87	12:45			10	52	10 52
1:00			14	0	14	13:00			13	0	13
1:15			18	0	18	13:15			14	0	14
1:30			13	0	13	13:30			14	0	14
1:45			12	57	12 57	13:45			14	55	14 55
2:00			20	0	20	14:00			18	0	18
2:15			14	0	14	14:15			18	0	18
2:30			12	0	12	14:30			11	0	11
2:45			13	59	13 59	14:45			9	56	9 56
3:00			10	0	10	15:00			17	0	17
3:15			11	0	11	15:15			17	0	17
3:30			16	0	16	15:30			19	0	19
3:45			14	51	14 51	15:45			24	77	24 77
4:00			10	0	10	16:00			24	0	24
4:15			9	0	9	16:15			16	0	16
4:30			8	0	8	16:30			17	0	17
4:45			9	36	9 36	16:45			22	79	22 79
5:00			9	0	9	17:00			14	0	14
5:15			8	0	8	17:15			15	0	15
5:30			7	0	7	17:30			7	0	7
5:45			5	29	5 29	17:45			9	45	9 45
6:00			4	0	4	18:00			12	0	12
6:15			4	0	4	18:15			16	0	16
6:30			7	0	7	18:30			10	0	10
6:45			5	20	5 20	18:45			16	54	16 54
7:00			3	0	3	19:00			16	0	16
7:15			10	0	10	19:15			18	0	18
7:30			7	0	7	19:30			13	0	13
7:45			6	26	6 26	19:45			18	65	18 65
8:00			7	0	7	20:00			21	0	21
8:15			5	0	5	20:15			15	0	15
8:30			5	0	5	20:30			14	0	14
8:45			7	24	7 24	20:45			16	66	16 66
9:00			5	0	5	21:00			20	0	20
9:15			6	0	6	21:15			15	0	15
9:30			8	0	8	21:30			29	0	29
9:45			5	24	5 24	21:45			12	76	12 76
10:00			10	0	10	22:00			19	0	19
10:15			3	0	3	22:15			13	0	13
10:30			10	0	10	22:30			18	0	18
10:45			11	34	11 34	22:45			25	75	25 75
11:00			11	0	11	23:00			21	0	21
11:15			12	0	12	23:15			18	0	18
11:30			10	0	10	23:30			26	0	26
11:45			7	40	7 40	23:45			15	80	15 80
TOTALS			487		487	TOTALS			780		780
SPLIT %			100.0%		38.4%	SPLIT %			100.0%		61.6%

DAILY TOTALS					NB	SB	EB	WB	Total	
					0	0	1,267	0	1,267	
AM Peak Hour						PM Peak Hour			22:45	22:45
AM Pk Volume			87		87	PM Pk Volume			90	90
Pk Hr Factor			0.702		0.702	Pk Hr Factor			0.865	0.865
7 - 9 Volume	0	0	50	0	50	4 - 6 Volume	0	0	124	124
7 - 9 Peak Hour			7:15		7:15	4 - 6 Peak Hour			16:00	16:00
7 - 9 Pk Volume	0	0	30	0	30	4 - 6 Pk Volume	0	0	79	79
Pk Hr Factor	0.000	0.000	0.750	0.000	0.750	Pk Hr Factor	0.000	0.000	0.823	0.823

VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Friday
Date: 4/29/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,375	0	1,375		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			20	0	20	12:00			15	0	15
0:15			25	0	25	12:15			14	0	14
0:30			22	0	22	12:30			14	0	14
0:45			20	87	20	12:45			23	66	23
1:00			16	0	16	13:00			15	0	15
1:15			15	0	15	13:15			13	0	13
1:30			17	0	17	13:30			18	0	18
1:45			16	64	16	13:45			14	60	14
2:00			17	0	17	14:00			22	0	22
2:15			11	0	11	14:15			21	0	21
2:30			13	0	13	14:30			23	0	23
2:45			22	63	22	14:45			17	83	17
3:00			13	0	13	15:00			9	0	9
3:15			10	0	10	15:15			14	0	14
3:30			11	0	11	15:30			18	0	18
3:45			7	41	7	15:45			12	53	12
4:00			10	0	10	16:00			22	0	22
4:15			11	0	11	16:15			12	0	12
4:30			12	0	12	16:30			15	0	15
4:45			6	39	6	16:45			7	56	7
5:00			10	0	10	17:00			10	0	10
5:15			9	0	9	17:15			12	0	12
5:30			7	0	7	17:30			15	0	15
5:45			6	32	6	17:45			19	56	19
6:00			7	0	7	18:00			8	0	8
6:15			2	0	2	18:15			8	0	8
6:30			7	0	7	18:30			18	0	18
6:45			4	20	4	18:45			11	45	11
7:00			8	0	8	19:00			12	0	12
7:15			7	0	7	19:15			20	0	20
7:30			9	0	9	19:30			20	0	20
7:45			4	28	4	19:45			27	79	27
8:00			9	0	9	20:00			29	0	29
8:15			1	0	1	20:15			21	0	21
8:30			5	0	5	20:30			35	0	35
8:45			7	22	7	20:45			27	112	27
9:00			5	0	5	21:00			21	0	21
9:15			7	0	7	21:15			22	0	22
9:30			5	0	5	21:30			22	0	22
9:45			7	24	7	21:45			27	92	27
10:00			16	0	16	22:00			18	0	18
10:15			8	0	8	22:15			18	0	18
10:30			11	0	11	22:30			14	0	14
10:45			10	45	10	22:45			23	73	23
11:00			11	0	11	23:00			28	0	28
11:15			7	0	7	23:15			21	0	21
11:30			10	0	10	23:30			30	0	30
11:45			11	39	11	23:45			17	96	17
TOTALS			504		504	TOTALS			871		871
SPLIT %			100.0%		36.7%	SPLIT %			100.0%		63.3%

DAILY TOTALS					NB	SB	EB	WB	Total	
					0	0	1,375	0	1,375	
AM Peak Hour									19:45	19:45
AM Pk Volume			87		87				112	112
Pk Hr Factor			0.870		0.870				0.800	0.800
7 - 9 Volume	0	0	50	0	50	4 - 6 Volume	0	0	112	112
7 - 9 Peak Hour			7:15		7:15	4 - 6 Peak Hour			16:00	16:00
7 - 9 Pk Volume	0	0	29	0	29	4 - 6 Pk Volume	0	0	56	56
Pk Hr Factor	0.000	0.000	0.806	0.000	0.806	Pk Hr Factor	0.000	0.000	0.636	0.636

VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Saturday
Date: 4/30/2022

City: Jamul
Project #: CA22_040057_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	1,681	0	1,681		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			29	0	29	12:00			8	0	8
0:15			26	0	26	12:15			18	0	18
0:30			18	0	18	12:30			18	0	18
0:45			24	97	24 97	12:45			19	63	19 63
1:00			33	0	33	13:00			17	0	17
1:15			36	0	36	13:15			15	0	15
1:30			35	0	35	13:30			20	0	20
1:45			24	128	24 128	13:45			19	71	19 71
2:00			31	0	31	14:00			15	0	15
2:15			17	0	17	14:15			16	0	16
2:30			17	0	17	14:30			14	0	14
2:45			27	92	27 92	14:45			25	70	25 70
3:00			24	0	24	15:00			21	0	21
3:15			15	0	15	15:15			25	0	25
3:30			16	0	16	15:30			27	0	27
3:45			17	72	17 72	15:45			21	94	21 94
4:00			13	0	13	16:00			24	0	24
4:15			13	0	13	16:15			16	0	16
4:30			17	0	17	16:30			19	0	19
4:45			11	54	11 54	16:45			19	78	19 78
5:00			11	0	11	17:00			16	0	16
5:15			10	0	10	17:15			12	0	12
5:30			8	0	8	17:30			31	0	31
5:45			1	30	1 30	17:45			19	78	19 78
6:00			7	0	7	18:00			16	0	16
6:15			14	0	14	18:15			17	0	17
6:30			5	0	5	18:30			15	0	15
6:45			9	35	9 35	18:45			16	64	16 64
7:00			13	0	13	19:00			20	0	20
7:15			9	0	9	19:15			25	0	25
7:30			11	0	11	19:30			16	0	16
7:45			8	41	8 41	19:45			22	83	22 83
8:00			9	0	9	20:00			18	0	18
8:15			12	0	12	20:15			23	0	23
8:30			6	0	6	20:30			24	0	24
8:45			14	41	14 41	20:45			35	100	35 100
9:00			10	0	10	21:00			20	0	20
9:15			9	0	9	21:15			12	0	12
9:30			12	0	12	21:30			19	0	19
9:45			5	36	5 36	21:45			22	73	22 73
10:00			13	0	13	22:00			17	0	17
10:15			8	0	8	22:15			24	0	24
10:30			4	0	4	22:30			28	0	28
10:45			7	32	7 32	22:45			32	101	32 101
11:00			7	0	7	23:00			23	0	23
11:15			12	0	12	23:15			31	0	31
11:30			7	0	7	23:30			30	0	30
11:45			14	40	14 40	23:45			24	108	24 108
TOTALS			698		698	TOTALS			983		983
SPLIT %			100.0%		41.5%	SPLIT %			100.0%		58.5%

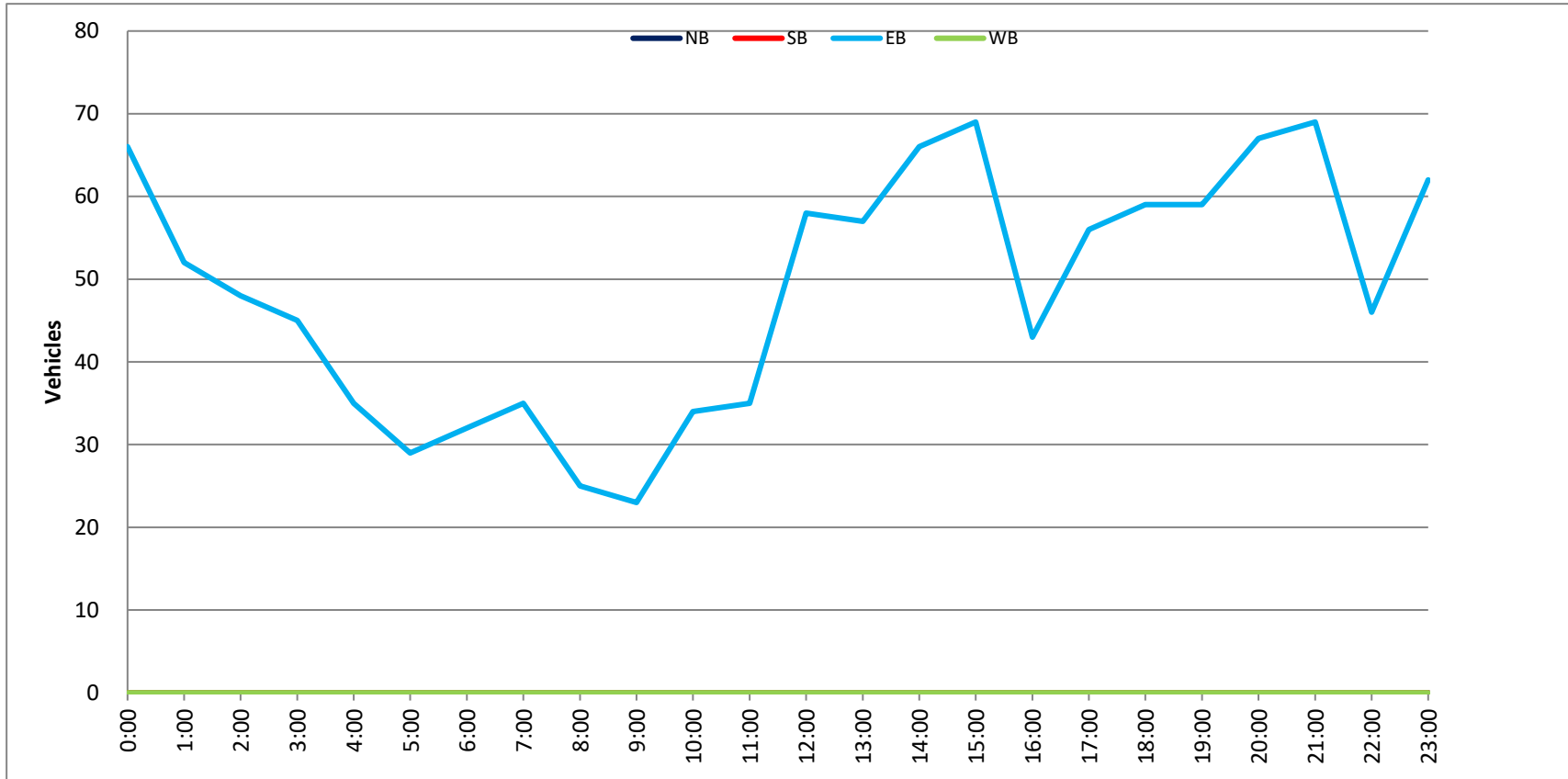
DAILY TOTALS					NB	SB	EB	WB	Total	
					0	0	1,681	0	1,681	
AM Peak Hour			0:45		0:45	PM Peak Hour			22:45	22:45
AM Pk Volume			128		128	PM Pk Volume			116	116
Pk Hr Factor			0.889		0.889	Pk Hr Factor			0.906	0.906
7 - 9 Volume	0	0	82	0	82	4 - 6 Volume	0	0	156	156
7 - 9 Peak Hour			7:00		7:00	4 - 6 Peak Hour			16:00	16:00
7 - 9 Pk Volume	0	0	41	0	41	4 - 6 Pk Volume	0	0	78	78
Pk Hr Factor	0.000	0.000	0.788	0.000	0.788	Pk Hr Factor	0.000	0.000	0.813	0.813

Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/26/2022

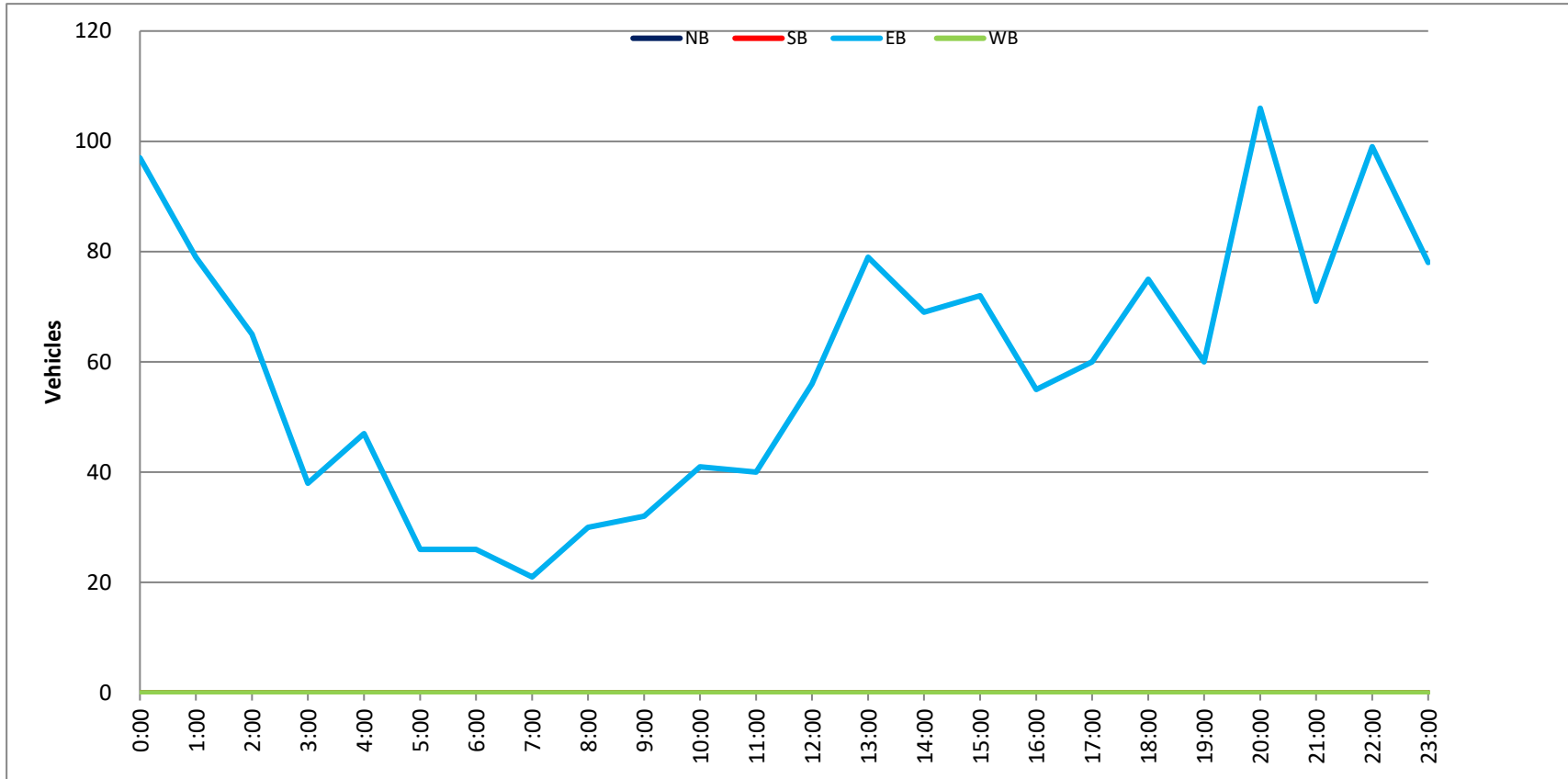


Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/27/2022

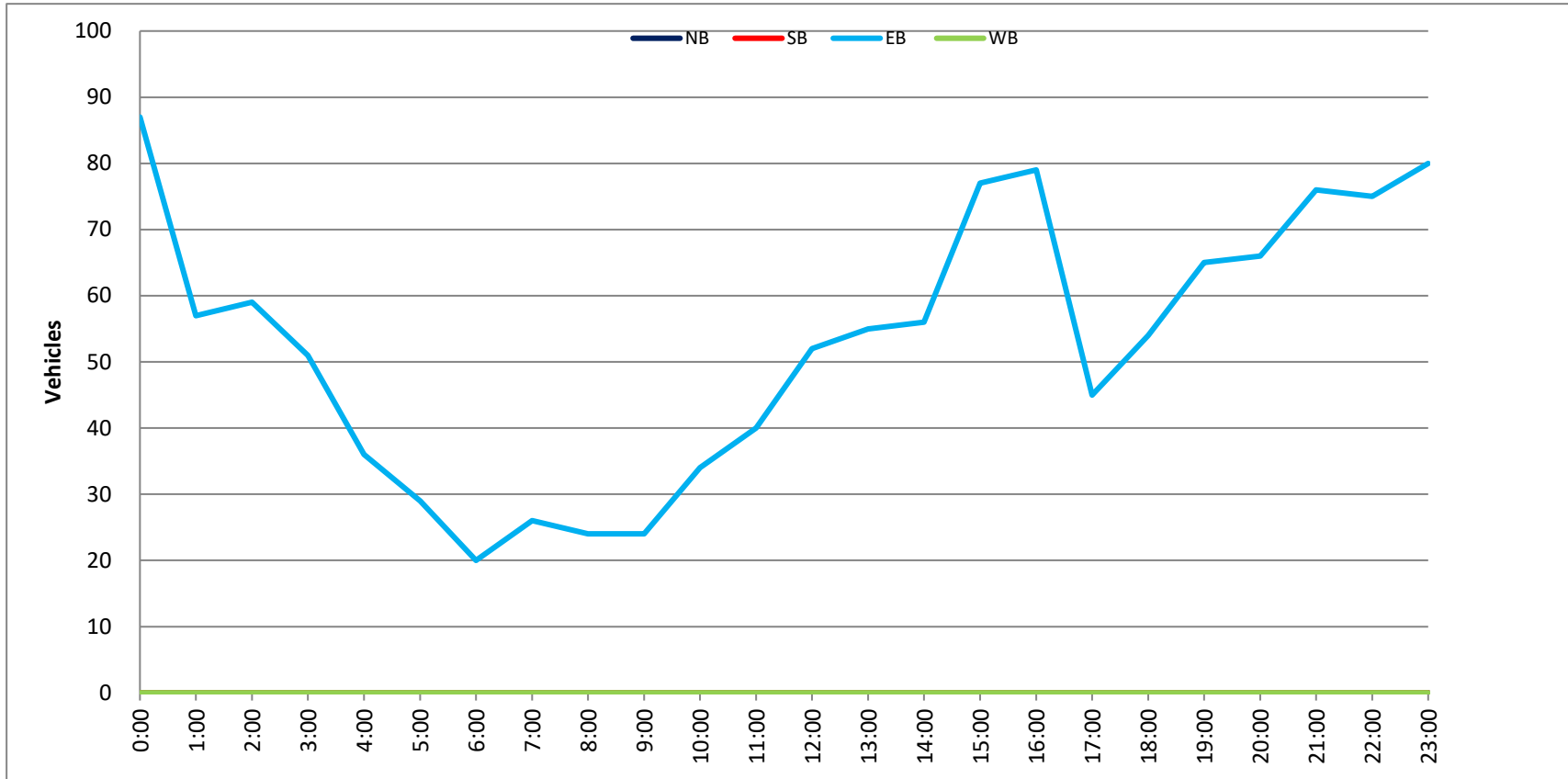


Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/28/2022

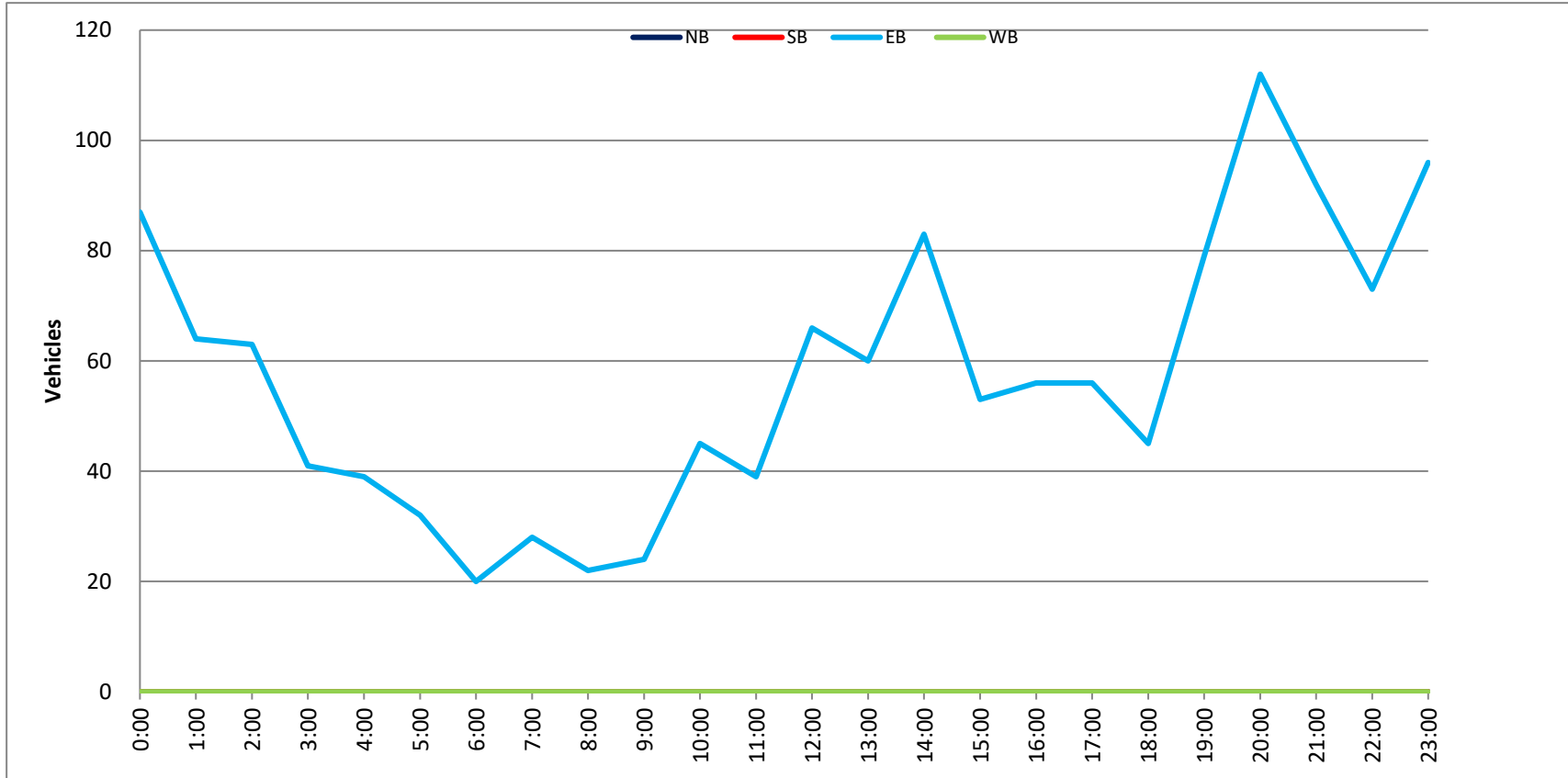


Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/29/2022

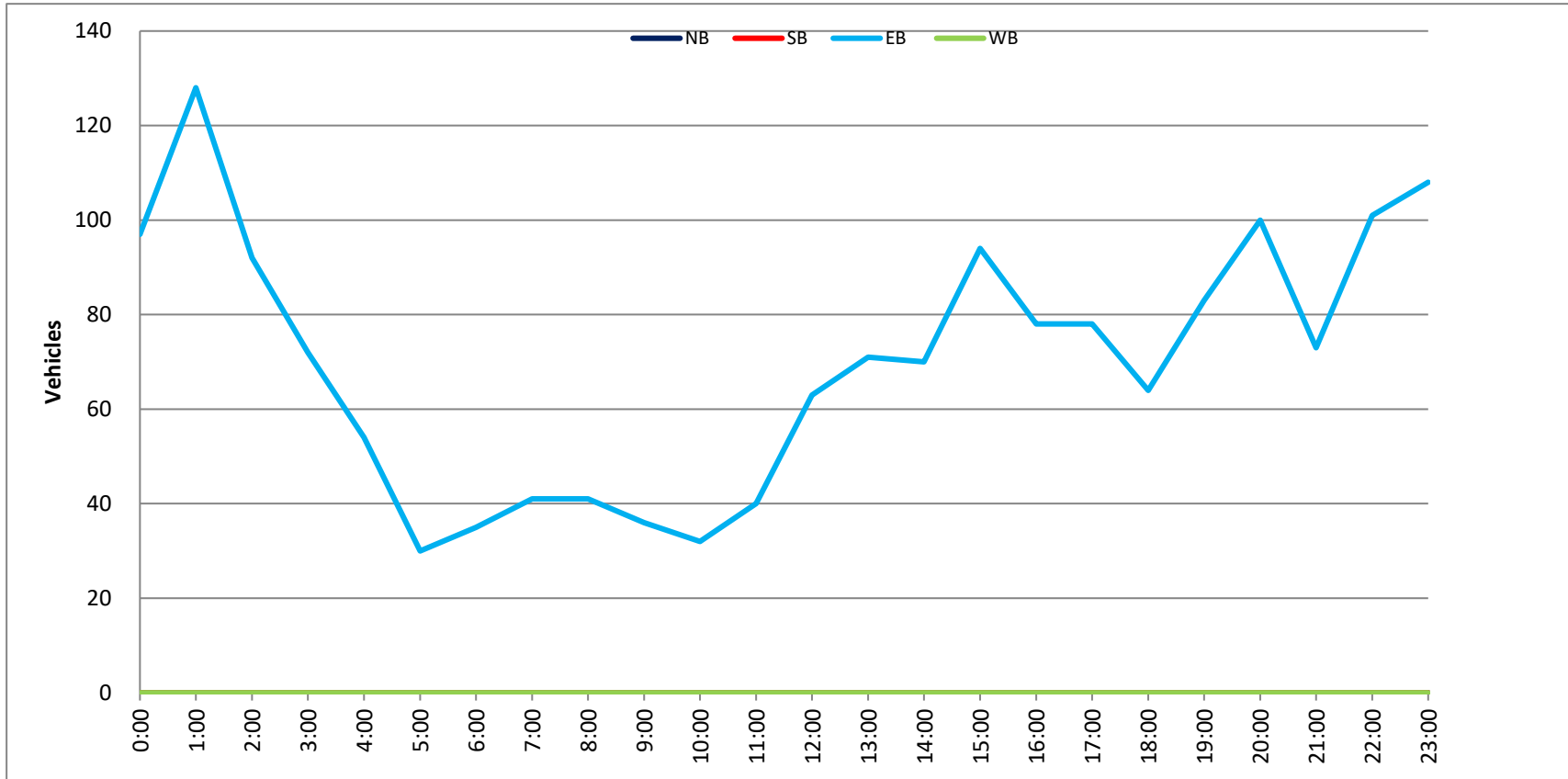


Project #: CA22_040057_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 4/30/2022



VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Saturday
Date: 4/16/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	4,481	0	4,481		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			67	0	67	12:00			49	0	49
0:15			56	0	56	12:15			47	0	47
0:30			69	0	69	12:30			31	0	31
0:45			55	247	55 247	12:45			50	177	50 177
1:00			74	0	74	13:00			46	0	46
1:15			72	0	72	13:15			39	0	39
1:30			63	0	63	13:30			37	0	37
1:45			50	259	50 259	13:45			43	165	43 165
2:00			53	0	53	14:00			51	0	51
2:15			38	0	38	14:15			53	0	53
2:30			35	0	35	14:30			62	0	62
2:45			36	162	36 162	14:45			60	226	60 226
3:00			33	0	33	15:00			47	0	47
3:15			38	0	38	15:15			54	0	54
3:30			18	0	18	15:30			66	0	66
3:45			25	114	25 114	15:45			55	222	55 222
4:00			23	0	23	16:00			71	0	71
4:15			24	0	24	16:15			52	0	52
4:30			21	0	21	16:30			53	0	53
4:45			21	89	21 89	16:45			53	229	53 229
5:00			18	0	18	17:00			48	0	48
5:15			15	0	15	17:15			63	0	63
5:30			14	0	14	17:30			50	0	50
5:45			11	58	11 58	17:45			52	213	52 213
6:00			13	0	13	18:00			71	0	71
6:15			21	0	21	18:15			76	0	76
6:30			27	0	27	18:30			74	0	74
6:45			18	79	18 79	18:45			88	309	88 309
7:00			18	0	18	19:00			63	0	63
7:15			24	0	24	19:15			68	0	68
7:30			32	0	32	19:30			68	0	68
7:45			29	103	29 103	19:45			72	271	72 271
8:00			21	0	21	20:00			88	0	88
8:15			15	0	15	20:15			61	0	61
8:30			23	0	23	20:30			56	0	56
8:45			15	74	15 74	20:45			78	283	78 283
9:00			17	0	17	21:00			63	0	63
9:15			18	0	18	21:15			79	0	79
9:30			24	0	24	21:30			57	0	57
9:45			21	80	21 80	21:45			55	254	55 254
10:00			19	0	19	22:00			93	0	93
10:15			25	0	25	22:15			60	0	60
10:30			17	0	17	22:30			88	0	88
10:45			24	85	24 85	22:45			78	319	78 319
11:00			26	0	26	23:00			99	0	99
11:15			33	0	33	23:15			78	0	78
11:30			36	0	36	23:30			92	0	92
11:45			26	121	26 121	23:45			73	342	73 342
TOTALS			1471		1471	TOTALS			3010		3010
SPLIT %			100.0%		32.8%	SPLIT %			100.0%		67.2%

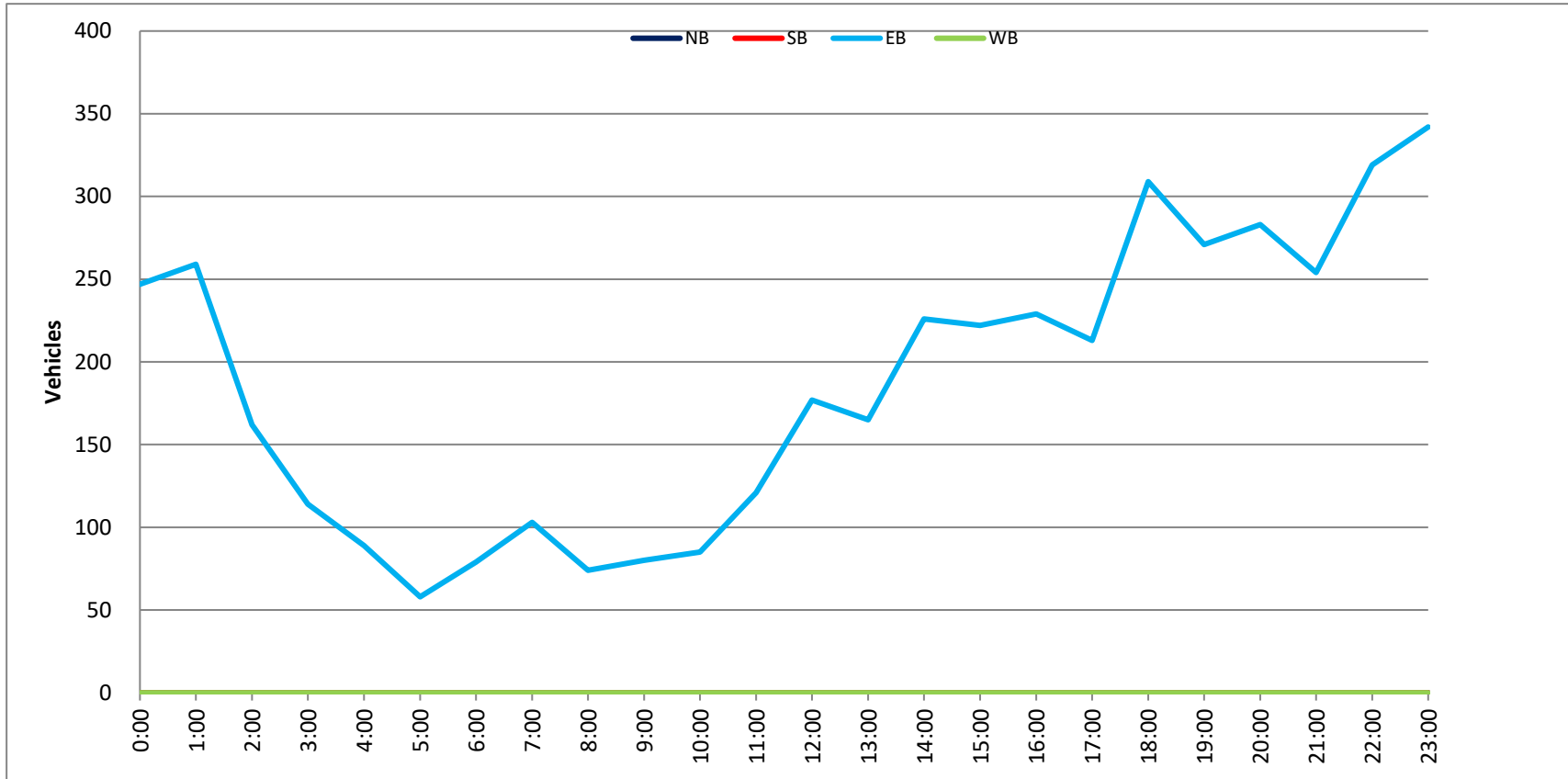
DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	4,481	0	4,481		
AM Peak Hour			0:30		0:30	PM Peak Hour			22:45		22:45
AM Pk Volume			270		270	PM Pk Volume			347		347
Pk Hr Factor			0.912		0.912	Pk Hr Factor			0.876		0.876
7 - 9 Volume	0	0	177	0	177	4 - 6 Volume	0	0	442	0	442
7 - 9 Peak Hour			7:15		7:15	4 - 6 Peak Hour			16:00		16:00
7 - 9 Pk Volume	0	0	106	0	106	4 - 6 Pk Volume	0	0	229	0	229
Pk Hr Factor	0.000	0.000	0.828	0.000	0.828	Pk Hr Factor	0.000	0.000	0.806	0.000	0.806

Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/16/2022



VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Tuesday
Date: 4/19/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	3,285	0	3,285		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			46	0	46	12:00			44	0	44
0:15			47	0	47	12:15			37	0	37
0:30			50	0	50	12:30			36	0	36
0:45			41	184	41 184	12:45			38	155	38 155
1:00			34	0	34	13:00			42	0	42
1:15			34	0	34	13:15			43	0	43
1:30			30	0	30	13:30			52	0	52
1:45			42	140	42 140	13:45			29	166	29 166
2:00			31	0	31	14:00			40	0	40
2:15			29	0	29	14:15			29	0	29
2:30			27	0	27	14:30			38	0	38
2:45			25	112	25 112	14:45			45	152	45 152
3:00			19	0	19	15:00			41	0	41
3:15			22	0	22	15:15			38	0	38
3:30			16	0	16	15:30			51	0	51
3:45			23	80	23 80	15:45			39	169	39 169
4:00			27	0	27	16:00			45	0	45
4:15			15	0	15	16:15			53	0	53
4:30			4	0	4	16:30			55	0	55
4:45			7	53	7 53	16:45			36	189	36 189
5:00			9	0	9	17:00			56	0	56
5:15			15	0	15	17:15			45	0	45
5:30			12	0	12	17:30			48	0	48
5:45			6	42	6 42	17:45			47	196	47 196
6:00			9	0	9	18:00			52	0	52
6:15			6	0	6	18:15			55	0	55
6:30			21	0	21	18:30			47	0	47
6:45			23	59	23 59	18:45			57	211	57 211
7:00			17	0	17	19:00			40	0	40
7:15			7	0	7	19:15			59	0	59
7:30			12	0	12	19:30			48	0	48
7:45			13	49	13 49	19:45			52	199	52 199
8:00			2	0	2	20:00			65	0	65
8:15			20	0	20	20:15			47	0	47
8:30			23	0	23	20:30			60	0	60
8:45			16	61	16 61	20:45			62	234	62 234
9:00			9	0	9	21:00			42	0	42
9:15			12	0	12	21:15			45	0	45
9:30			15	0	15	21:30			34	0	34
9:45			17	53	17 53	21:45			54	175	54 175
10:00			19	0	19	22:00			47	0	47
10:15			16	0	16	22:15			47	0	47
10:30			25	0	25	22:30			71	0	71
10:45			22	82	22 82	22:45			38	203	38 203
11:00			34	0	34	23:00			47	0	47
11:15			34	0	34	23:15			46	0	46
11:30			24	0	24	23:30			65	0	65
11:45			38	130	38 130	23:45			33	191	33 191
TOTALS			1045		1045	TOTALS			2240		2240
SPLIT %			100.0%		31.8%	SPLIT %			100.0%		68.2%

DAILY TOTALS					NB	SB	EB	WB	Total	
					0	0	3,285	0	3,285	
AM Peak Hour						PM Peak Hour			20:00	20:00
AM Pk Volume			184		184	PM Pk Volume			234	234
Pk Hr Factor			0.920		0.920	Pk Hr Factor			0.900	0.900
7 - 9 Volume	0	0	110	0	110	4 - 6 Volume	0	0	385	385
7 - 9 Peak Hour			8:00		8:00	4 - 6 Peak Hour			16:15	16:15
7 - 9 Pk Volume	0	0	61	0	61	4 - 6 Pk Volume	0	0	200	200
Pk Hr Factor	0.000	0.000	0.663	0.000	0.663	Pk Hr Factor	0.000	0.000	0.893	0.893

VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Wednesday
Date: 4/20/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	4,149	0	4,149

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			49	0	49	12:00			54	0	54
0:15			53	0	53	12:15			57	0	57
0:30			47	0	47	12:30			56	0	56
0:45			43	192	43 192	12:45			50	217	50 217
1:00			33	0	33	13:00			46	0	46
1:15			28	0	28	13:15			63	0	63
1:30			39	0	39	13:30			49	0	49
1:45			24	124	24 124	13:45			58	216	58 216
2:00			22	0	22	14:00			64	0	64
2:15			32	0	32	14:15			59	0	59
2:30			29	0	29	14:30			57	0	57
2:45			21	104	21 104	14:45			64	244	64 244
3:00			20	0	20	15:00			56	0	56
3:15			11	0	11	15:15			50	0	50
3:30			8	0	8	15:30			62	0	62
3:45			16	55	16 55	15:45			59	227	59 227
4:00			19	0	19	16:00			65	0	65
4:15			21	0	21	16:15			53	0	53
4:30			15	0	15	16:30			66	0	66
4:45			17	72	17 72	16:45			56	240	56 240
5:00			8	0	8	17:00			69	0	69
5:15			9	0	9	17:15			59	0	59
5:30			5	0	5	17:30			74	0	74
5:45			13	35	13 35	17:45			50	252	50 252
6:00			11	0	11	18:00			63	0	63
6:15			13	0	13	18:15			71	0	71
6:30			20	0	20	18:30			68	0	68
6:45			18	62	18 62	18:45			73	275	73 275
7:00			8	0	8	19:00			78	0	78
7:15			9	0	9	19:15			61	0	61
7:30			14	0	14	19:30			68	0	68
7:45			14	45	14 45	19:45			86	293	86 293
8:00			12	0	12	20:00			87	0	87
8:15			16	0	16	20:15			64	0	64
8:30			21	0	21	20:30			92	0	92
8:45			24	73	24 73	20:45			68	311	68 311
9:00			27	0	27	21:00			75	0	75
9:15			27	0	27	21:15			93	0	93
9:30			20	0	20	21:30			65	0	65
9:45			30	104	30 104	21:45			58	291	58 291
10:00			15	0	15	22:00			61	0	61
10:15			33	0	33	22:15			60	0	60
10:30			32	0	32	22:30			80	0	80
10:45			38	118	38 118	22:45			44	245	44 245
11:00			29	0	29	23:00			63	0	63
11:15			29	0	29	23:15			47	0	47
11:30			45	0	45	23:30			53	0	53
11:45			38	141	38 141	23:45			50	213	50 213
TOTALS			1125		1125	TOTALS			3024		3024
SPLIT %			100.0%		27.1%	SPLIT %			100.0%		72.9%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	4,149	0	4,149

AM Peak Hour			11:45		11:45	PM Peak Hour			19:45		19:45
AM Pk Volume			205		205	PM Pk Volume			329		329
Pk Hr Factor			0.899		0.899	Pk Hr Factor			0.894		0.894
7 - 9 Volume	0	0	118	0	118	4 - 6 Volume	0	0	492	0	492
7 - 9 Peak Hour			8:00		8:00	4 - 6 Peak Hour			16:45		16:45
7 - 9 Pk Volume	0	0	73	0	73	4 - 6 Pk Volume	0	0	258	0	258
Pk Hr Factor	0.000	0.000	0.760	0.000	0.760	Pk Hr Factor	0.000	0.000	0.872	0.000	0.872

VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Thursday
Date: 4/21/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	3,666	0	3,666		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			51	0	51	12:00			33	0	33
0:15			39	0	39	12:15			36	0	36
0:30			42	0	42	12:30			38	0	38
0:45			27	159	27 159	12:45			43	150	43 150
1:00			43	0	43	13:00			53	0	53
1:15			34	0	34	13:15			40	0	40
1:30			29	0	29	13:30			40	0	40
1:45			24	130	24 130	13:45			43	176	43 176
2:00			23	0	23	14:00			46	0	46
2:15			24	0	24	14:15			41	0	41
2:30			44	0	44	14:30			51	0	51
2:45			21	112	21 112	14:45			61	199	61 199
3:00			21	0	21	15:00			51	0	51
3:15			12	0	12	15:15			50	0	50
3:30			12	0	12	15:30			62	0	62
3:45			17	62	17 62	15:45			48	211	48 211
4:00			23	0	23	16:00			48	0	48
4:15			11	0	11	16:15			46	0	46
4:30			17	0	17	16:30			34	0	34
4:45			15	66	15 66	16:45			68	196	68 196
5:00			22	0	22	17:00			54	0	54
5:15			7	0	7	17:15			46	0	46
5:30			10	0	10	17:30			70	0	70
5:45			12	51	12 51	17:45			55	225	55 225
6:00			9	0	9	18:00			48	0	48
6:15			11	0	11	18:15			71	0	71
6:30			16	0	16	18:30			40	0	40
6:45			15	51	15 51	18:45			59	218	59 218
7:00			8	0	8	19:00			66	0	66
7:15			13	0	13	19:15			59	0	59
7:30			22	0	22	19:30			55	0	55
7:45			9	52	9 52	19:45			72	252	72 252
8:00			10	0	10	20:00			86	0	86
8:15			13	0	13	20:15			56	0	56
8:30			15	0	15	20:30			56	0	56
8:45			15	53	15 53	20:45			61	259	61 259
9:00			10	0	10	21:00			47	0	47
9:15			12	0	12	21:15			55	0	55
9:30			10	0	10	21:30			53	0	53
9:45			30	62	30 62	21:45			72	227	72 227
10:00			21	0	21	22:00			73	0	73
10:15			24	0	24	22:15			50	0	50
10:30			28	0	28	22:30			52	0	52
10:45			29	102	29 102	22:45			83	258	83 258
11:00			22	0	22	23:00			66	0	66
11:15			27	0	27	23:15			51	0	51
11:30			38	0	38	23:30			86	0	86
11:45			34	121	34 121	23:45			71	274	71 274
TOTALS			1021		1021	TOTALS			2645		2645
SPLIT %			100.0%		27.9%	SPLIT %			100.0%		72.1%

DAILY TOTALS					NB	SB	EB	WB	Total
					0	0	3,666	0	3,666

AM Peak Hour					PM Peak Hour			22:45	22:45
AM Pk Volume			159	159	PM Pk Volume			286	286
Pk Hr Factor			0.779	0.779	Pk Hr Factor			0.831	0.831
7 - 9 Volume	0	0	105	105	4 - 6 Volume	0	0	421	421
7 - 9 Peak Hour			7:15	7:15	4 - 6 Peak Hour			16:45	16:45
7 - 9 Pk Volume	0	0	54	54	4 - 6 Pk Volume	0	0	238	238
Pk Hr Factor	0.000	0.000	0.614	0.614	Pk Hr Factor	0.000	0.000	0.850	0.850

VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Friday
Date: 4/22/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	3,570	0	3,570		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			42	0	42	12:00			30	0	30
0:15			35	0	35	12:15			26	0	26
0:30			42	0	42	12:30			38	0	38
0:45			35	154	35	12:45			30	124	30
1:00			37	0	37	13:00			37	0	37
1:15			33	0	33	13:15			35	0	35
1:30			35	0	35	13:30			26	0	26
1:45			36	141	36	13:45			50	148	50
2:00			26	0	26	14:00			55	0	55
2:15			18	0	18	14:15			41	0	41
2:30			23	0	23	14:30			49	0	49
2:45			20	87	20	14:45			44	189	44
3:00			25	0	25	15:00			38	0	38
3:15			19	0	19	15:15			42	0	42
3:30			19	0	19	15:30			45	0	45
3:45			21	84	21	15:45			51	176	51
4:00			17	0	17	16:00			39	0	39
4:15			11	0	11	16:15			28	0	28
4:30			26	0	26	16:30			53	0	53
4:45			10	64	10	16:45			53	173	53
5:00			21	0	21	17:00			63	0	63
5:15			8	0	8	17:15			63	0	63
5:30			12	0	12	17:30			45	0	45
5:45			8	49	8	17:45			42	213	42
6:00			15	0	15	18:00			45	0	45
6:15			11	0	11	18:15			43	0	43
6:30			26	0	26	18:30			58	0	58
6:45			7	59	7	18:45			45	191	45
7:00			9	0	9	19:00			57	0	57
7:15			12	0	12	19:15			63	0	63
7:30			29	0	29	19:30			45	0	45
7:45			9	59	9	19:45			76	241	76
8:00			8	0	8	20:00			74	0	74
8:15			10	0	10	20:15			72	0	72
8:30			7	0	7	20:30			59	0	59
8:45			11	36	11	20:45			76	281	76
9:00			7	0	7	21:00			77	0	77
9:15			21	0	21	21:15			66	0	66
9:30			21	0	21	21:30			58	0	58
9:45			13	62	13	21:45			62	263	62
10:00			28	0	28	22:00			91	0	91
10:15			17	0	17	22:15			70	0	70
10:30			26	0	26	22:30			73	0	73
10:45			20	91	20	22:45			70	304	70
11:00			19	0	19	23:00			74	0	74
11:15			38	0	38	23:15			66	0	66
11:30			20	0	20	23:30			72	0	72
11:45			37	114	37	23:45			55	267	55
TOTALS					1000	TOTALS					2570
SPLIT %					100.0%	SPLIT %					72.0%

DAILY TOTALS					NB	SB	EB	WB	Total
					0	0	3,570	0	3,570

AM Peak Hour					PM Peak Hour	22:00					
AM Pk Volume	154				PM Pk Volume	304					
Pk Hr Factor	0.917				Pk Hr Factor	0.835					
7 - 9 Volume	0	0	95	0	95	4 - 6 Volume	0	0	386	0	386
7 - 9 Peak Hour	7:00				7:00	4 - 6 Peak Hour	16:30				
7 - 9 Pk Volume	0	0	59	0	59	4 - 6 Pk Volume	0	0	232	0	232
Pk Hr Factor	0.000	0.000	0.509	0.000	0.509	Pk Hr Factor	0.000	0.000	0.921	0.000	0.921

VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Saturday
Date: 4/23/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	5,046	0	5,046

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			51	0	51	12:00			48	0	48
0:15			68	0	68	12:15			56	0	56
0:30			76	0	76	12:30			60	0	60
0:45			37	232	37 232	12:45			61	225	61 225
1:00			54	0	54	13:00			65	0	65
1:15			56	0	56	13:15			60	0	60
1:30			70	0	70	13:30			66	0	66
1:45			47	227	47 227	13:45			72	263	72 263
2:00			51	0	51	14:00			65	0	65
2:15			37	0	37	14:15			74	0	74
2:30			47	0	47	14:30			77	0	77
2:45			38	173	38 173	14:45			72	288	72 288
3:00			33	0	33	15:00			79	0	79
3:15			38	0	38	15:15			76	0	76
3:30			35	0	35	15:30			80	0	80
3:45			30	136	30 136	15:45			78	313	78 313
4:00			36	0	36	16:00			78	0	78
4:15			25	0	25	16:15			88	0	88
4:30			32	0	32	16:30			94	0	94
4:45			12	105	12 105	16:45			75	335	75 335
5:00			16	0	16	17:00			71	0	71
5:15			11	0	11	17:15			83	0	83
5:30			18	0	18	17:30			63	0	63
5:45			8	53	8 53	17:45			83	300	83 300
6:00			15	0	15	18:00			53	0	53
6:15			11	0	11	18:15			63	0	63
6:30			29	0	29	18:30			72	0	72
6:45			23	78	23 78	18:45			70	258	70 258
7:00			11	0	11	19:00			93	0	93
7:15			19	0	19	19:15			60	0	60
7:30			29	0	29	19:30			87	0	87
7:45			30	89	30 89	19:45			66	306	66 306
8:00			17	0	17	20:00			98	0	98
8:15			17	0	17	20:15			67	0	67
8:30			22	0	22	20:30			74	0	74
8:45			10	66	10 66	20:45			68	307	68 307
9:00			24	0	24	21:00			78	0	78
9:15			18	0	18	21:15			65	0	65
9:30			24	0	24	21:30			58	0	58
9:45			22	88	22 88	21:45			72	273	72 273
10:00			24	0	24	22:00			76	0	76
10:15			31	0	31	22:15			77	0	77
10:30			33	0	33	22:30			74	0	74
10:45			34	122	34 122	22:45			89	316	89 316
11:00			55	0	55	23:00			61	0	61
11:15			48	0	48	23:15			65	0	65
11:30			43	0	43	23:30			84	0	84
11:45			57	203	57 203	23:45			80	290	80 290
TOTALS			1572		1572	TOTALS			3474		3474
SPLIT %			100.0%		31.2%	SPLIT %			100.0%		68.8%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	5,046	0	5,046

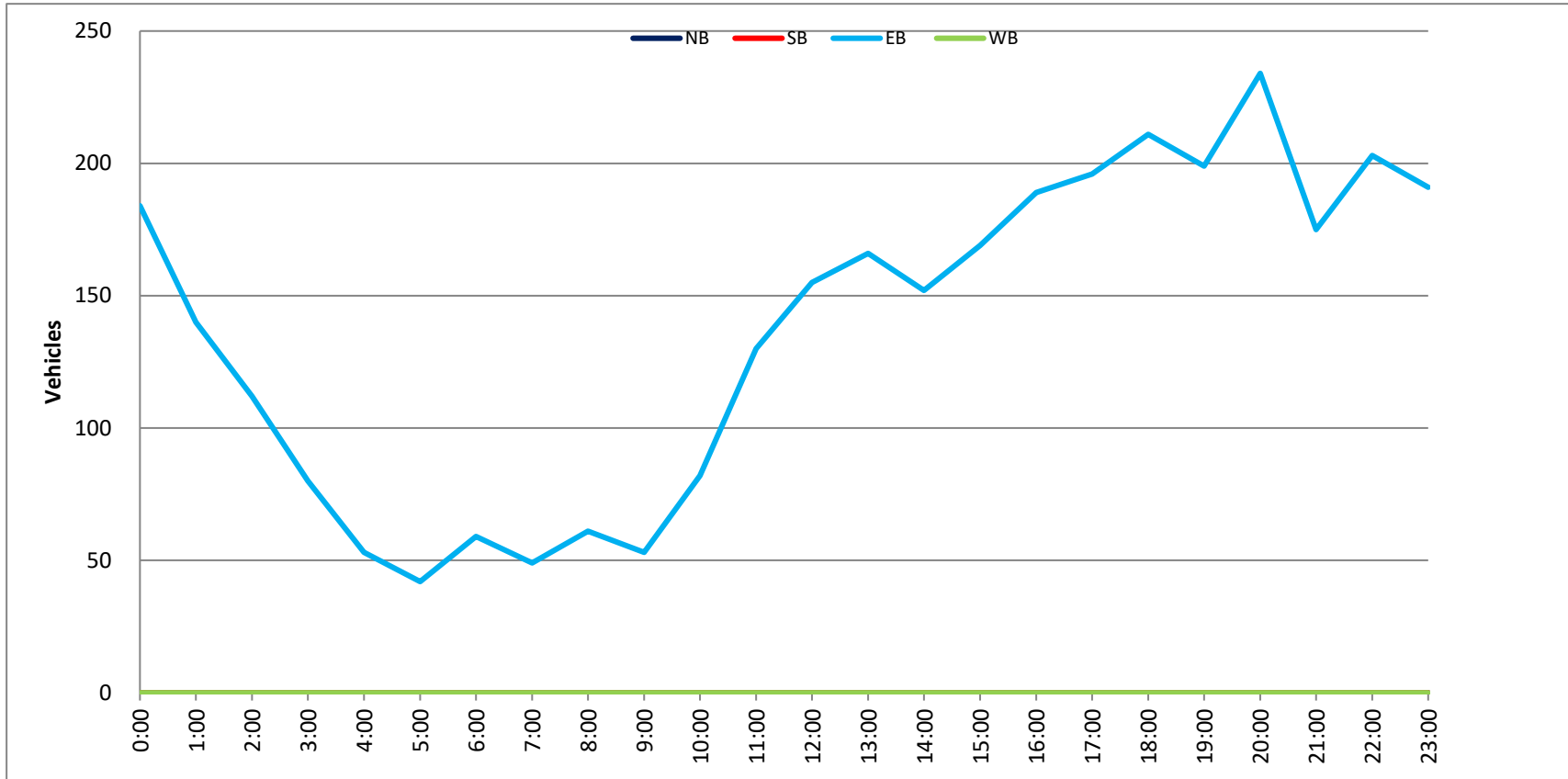
AM Peak Hour			0:15		0:15	PM Peak Hour			15:45		15:45
AM Pk Volume			235		235	PM Pk Volume			338		338
Pk Hr Factor			0.773		0.773	Pk Hr Factor			0.899		0.899
7 - 9 Volume	0	0	155	0	155	4 - 6 Volume	0	0	635	0	635
7 - 9 Peak Hour			7:15		7:15	4 - 6 Peak Hour			16:00		16:00
7 - 9 Pk Volume	0	0	95	0	95	4 - 6 Pk Volume	0	0	335	0	335
Pk Hr Factor	0.000	0.000	0.792	0.000	0.792	Pk Hr Factor	0.000	0.000	0.891	0.000	0.891

Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/19/2022

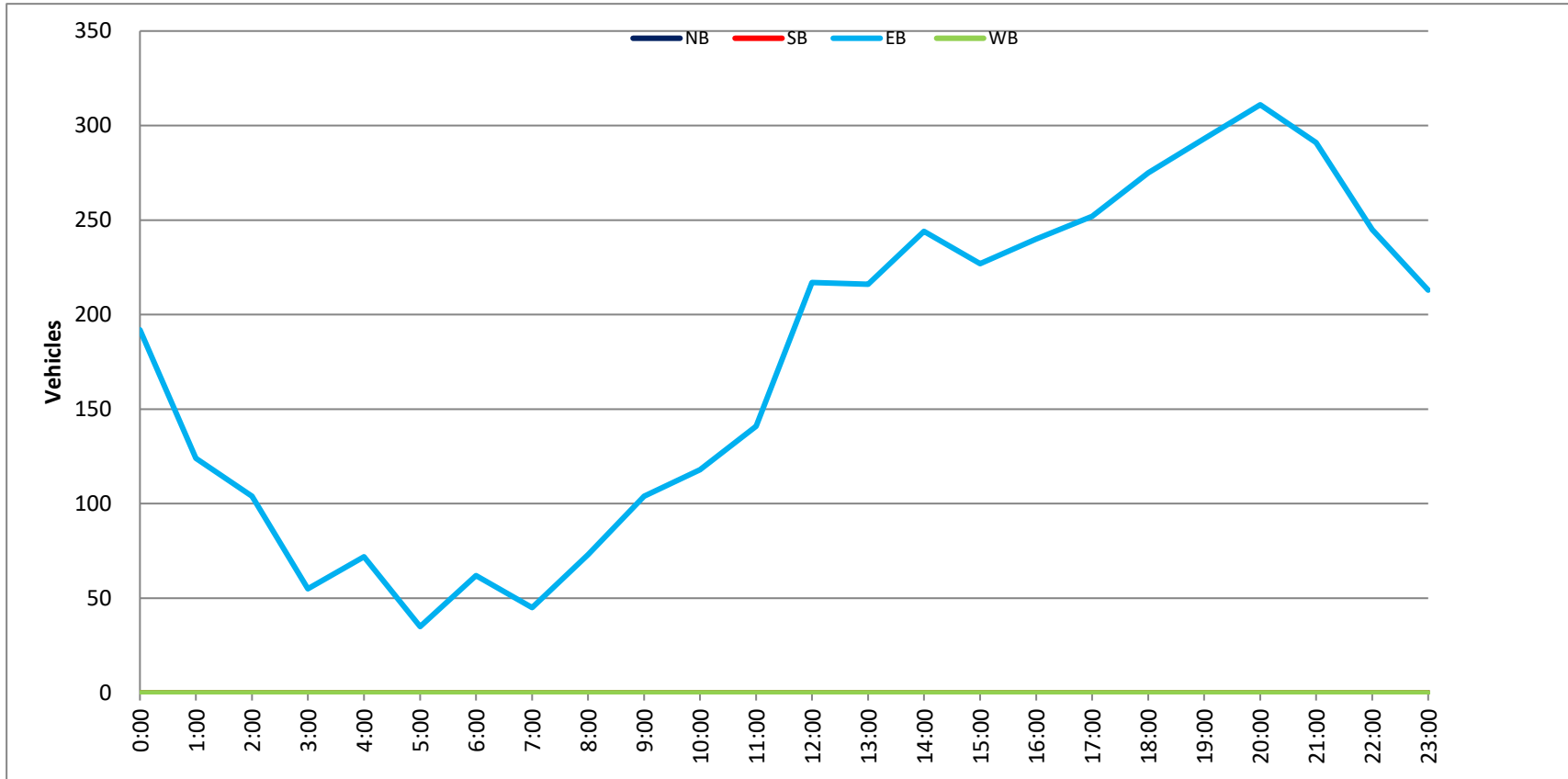


Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/20/2022

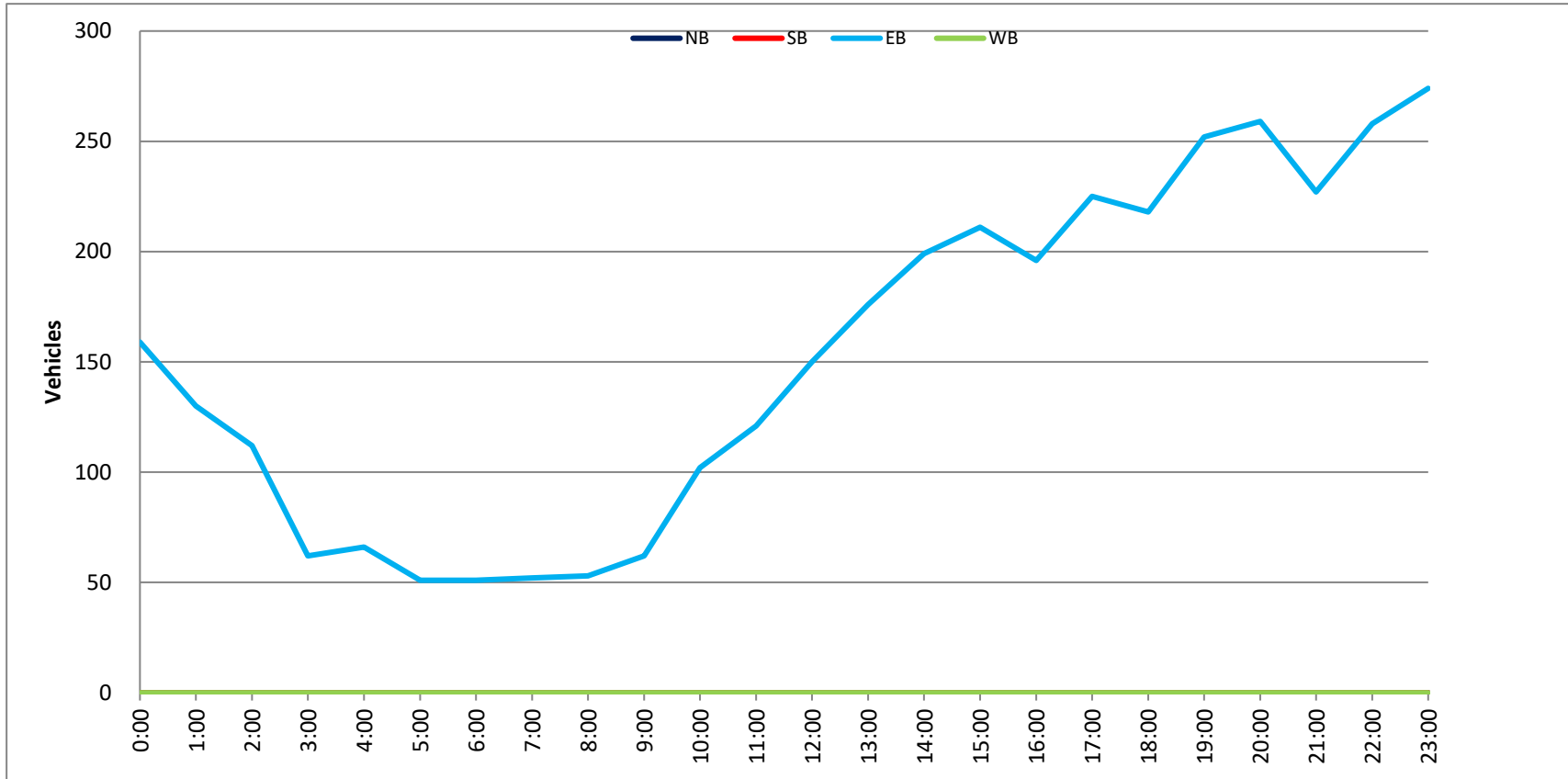


Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/21/2022

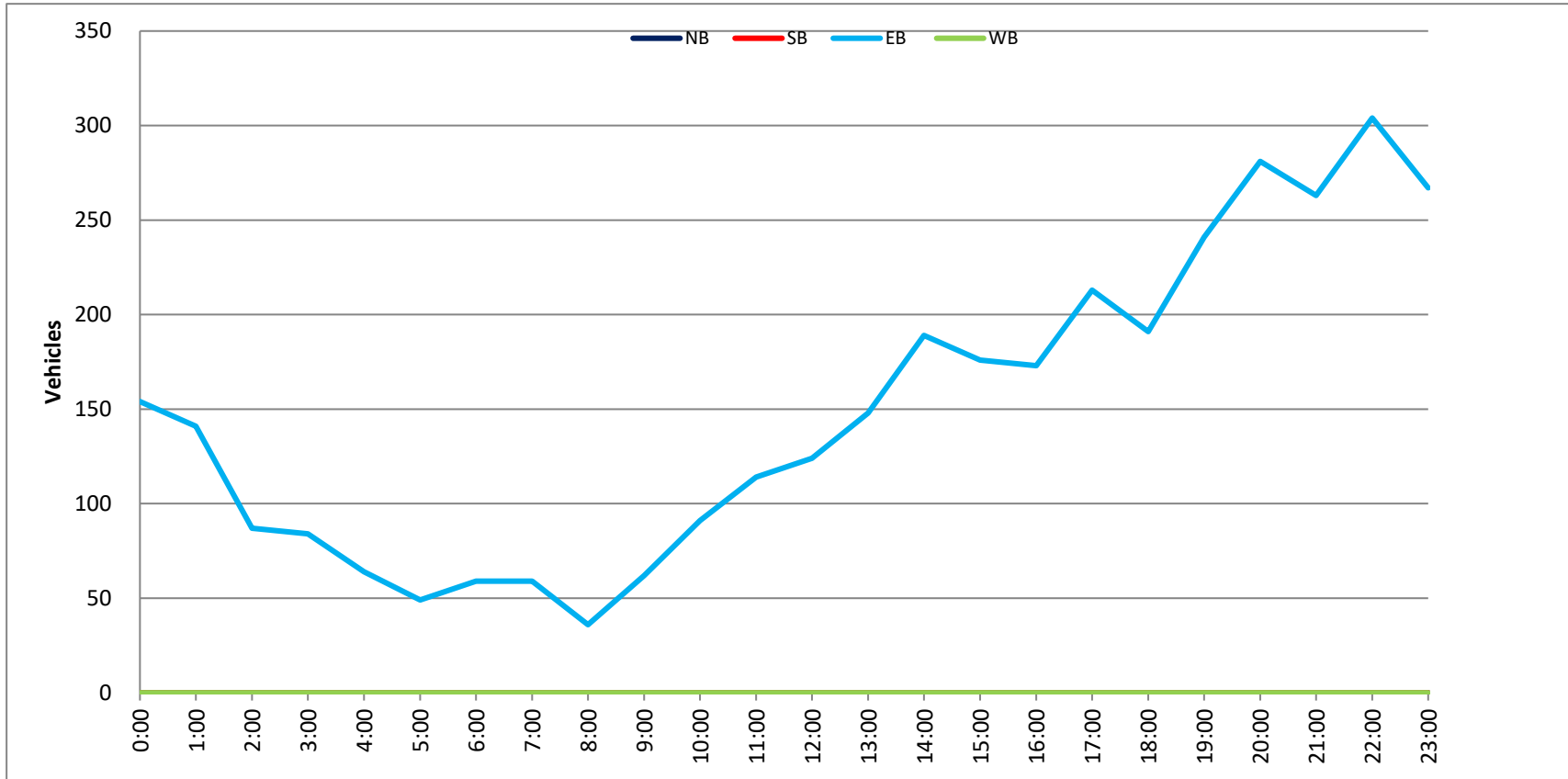


Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/22/2022

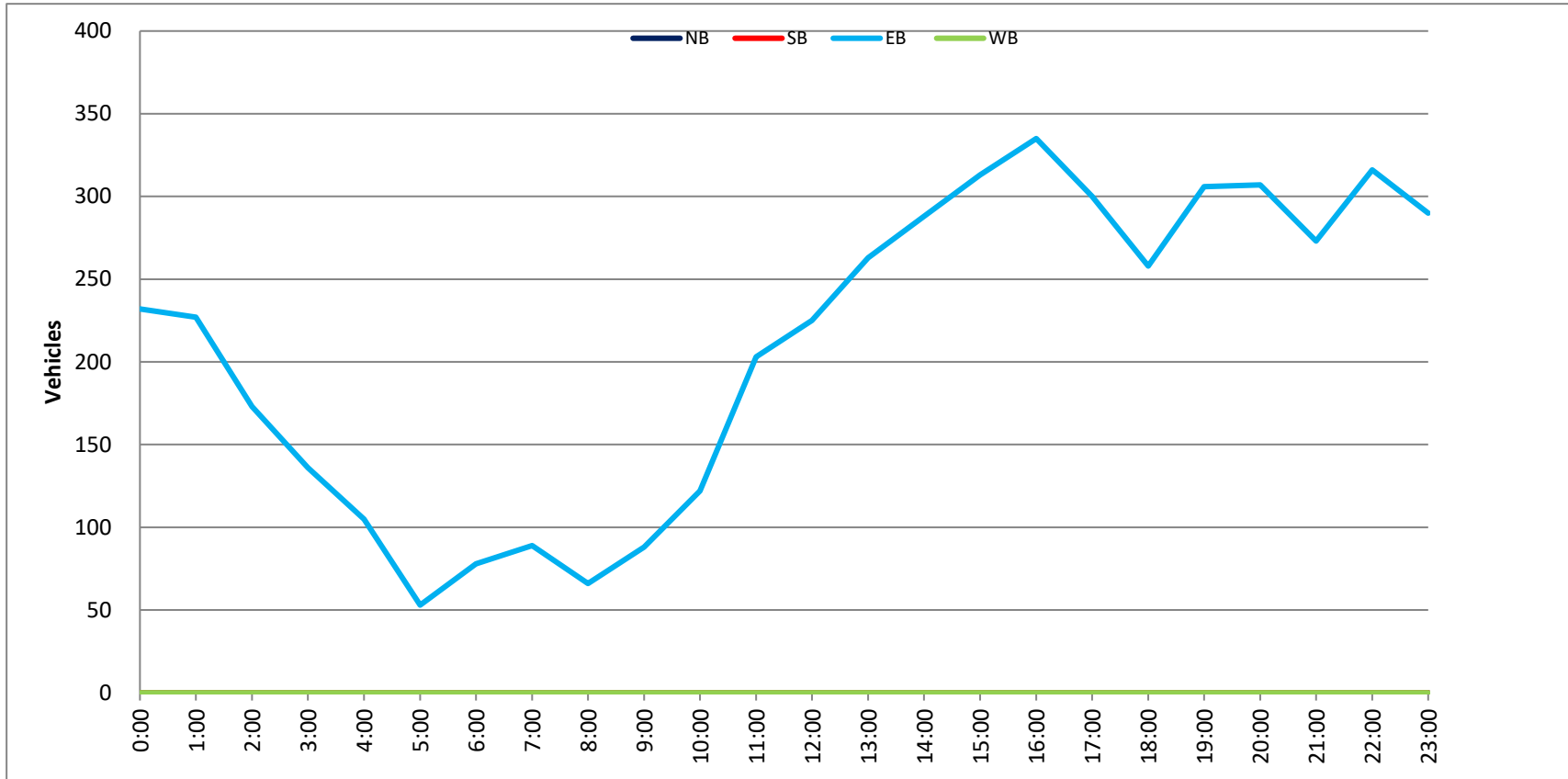


Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/23/2022



VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Tuesday
Date: 4/26/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS		NB	SB	EB	WB	Total
		0	0	3,341	0	3,341

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			41	0	41	12:00			36	0	36
0:15			61	0	61	12:15			39	0	39
0:30			46	0	46	12:30			43	0	43
0:45			25	173	25 173	12:45			26	144	26 144
1:00			48	0	48	13:00			32	0	32
1:15			40	0	40	13:15			45	0	45
1:30			26	0	26	13:30			36	0	36
1:45			27	141	27 141	13:45			47	160	47 160
2:00			28	0	28	14:00			49	0	49
2:15			38	0	38	14:15			42	0	42
2:30			24	0	24	14:30			53	0	53
2:45			22	112	22 112	14:45			46	190	46 190
3:00			19	0	19	15:00			39	0	39
3:15			11	0	11	15:15			46	0	46
3:30			15	0	15	15:30			57	0	57
3:45			12	57	12 57	15:45			32	174	32 174
4:00			23	0	23	16:00			42	0	42
4:15			11	0	11	16:15			47	0	47
4:30			15	0	15	16:30			52	0	52
4:45			10	59	10 59	16:45			47	188	47 188
5:00			12	0	12	17:00			48	0	48
5:15			10	0	10	17:15			45	0	45
5:30			15	0	15	17:30			53	0	53
5:45			10	47	10 47	17:45			42	188	42 188
6:00			12	0	12	18:00			53	0	53
6:15			13	0	13	18:15			45	0	45
6:30			9	0	9	18:30			54	0	54
6:45			10	44	10 44	18:45			57	209	57 209
7:00			18	0	18	19:00			63	0	63
7:15			26	0	26	19:15			52	0	52
7:30			27	0	27	19:30			60	0	60
7:45			12	83	12 83	19:45			70	245	70 245
8:00			9	0	9	20:00			63	0	63
8:15			15	0	15	20:15			60	0	60
8:30			7	0	7	20:30			45	0	45
8:45			12	43	12 43	20:45			48	216	48 216
9:00			21	0	21	21:00			45	0	45
9:15			26	0	26	21:15			40	0	40
9:30			22	0	22	21:30			56	0	56
9:45			21	90	21 90	21:45			54	195	54 195
10:00			17	0	17	22:00			48	0	48
10:15			22	0	22	22:15			32	0	32
10:30			21	0	21	22:30			51	0	51
10:45			24	84	24 84	22:45			59	190	59 190
11:00			22	0	22	23:00			61	0	61
11:15			30	0	30	23:15			47	0	47
11:30			24	0	24	23:30			65	0	65
11:45			20	96	20 96	23:45			40	213	40 213
TOTALS			1029		1029	TOTALS			2312		2312
SPLIT %			100.0%		30.8%	SPLIT %			100.0%		69.2%

DAILY TOTALS		NB	SB	EB	WB	Total
		0	0	3,341	0	3,341

AM Peak Hour		0:15		0:15		PM Peak Hour		19:30		19:30	
AM Pk Volume		180		180		PM Pk Volume		253		253	
Pk Hr Factor		0.738		0.738		Pk Hr Factor		0.904		0.904	
7 - 9 Volume	0	0	126	0	126	4 - 6 Volume	0	0	376	0	376
7 - 9 Peak Hour			7:00		7:00	4 - 6 Peak Hour			16:15		16:15
7 - 9 Pk Volume	0	0	83	0	83	4 - 6 Pk Volume	0	0	194	0	194
Pk Hr Factor	0.000	0.000	0.769	0.000	0.769	Pk Hr Factor	0.000	0.000	0.933	0.000	0.933

VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Thursday
Date: 4/28/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	3,382	0	3,382

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			28	0	28	12:00			48	0	48
0:15			43	0	43	12:15			38	0	38
0:30			35	0	35	12:30			25	0	25
0:45			25	131	25 131	12:45			39	150	39 150
1:00			30	0	30	13:00			36	0	36
1:15			34	0	34	13:15			32	0	32
1:30			30	0	30	13:30			40	0	40
1:45			24	118	24 118	13:45			42	150	42 150
2:00			35	0	35	14:00			49	0	49
2:15			30	0	30	14:15			54	0	54
2:30			24	0	24	14:30			40	0	40
2:45			35	124	35 124	14:45			40	183	40 183
3:00			26	0	26	15:00			37	0	37
3:15			16	0	16	15:15			38	0	38
3:30			18	0	18	15:30			58	0	58
3:45			13	73	13 73	15:45			39	172	39 172
4:00			19	0	19	16:00			45	0	45
4:15			24	0	24	16:15			44	0	44
4:30			26	0	26	16:30			62	0	62
4:45			17	86	17 86	16:45			42	193	42 193
5:00			14	0	14	17:00			36	0	36
5:15			13	0	13	17:15			49	0	49
5:30			11	0	11	17:30			50	0	50
5:45			12	50	12 50	17:45			55	190	55 190
6:00			13	0	13	18:00			78	0	78
6:15			15	0	15	18:15			53	0	53
6:30			15	0	15	18:30			53	0	53
6:45			6	49	6 49	18:45			54	238	54 238
7:00			18	0	18	19:00			48	0	48
7:15			8	0	8	19:15			47	0	47
7:30			16	0	16	19:30			56	0	56
7:45			15	57	15 57	19:45			70	221	70 221
8:00			13	0	13	20:00			63	0	63
8:15			8	0	8	20:15			68	0	68
8:30			13	0	13	20:30			58	0	58
8:45			15	49	15 49	20:45			51	240	51 240
9:00			13	0	13	21:00			58	0	58
9:15			12	0	12	21:15			65	0	65
9:30			22	0	22	21:30			50	0	50
9:45			5	52	5 52	21:45			60	233	60 233
10:00			20	0	20	22:00			54	0	54
10:15			23	0	23	22:15			52	0	52
10:30			15	0	15	22:30			62	0	62
10:45			20	78	20 78	22:45			67	235	67 235
11:00			19	0	19	23:00			46	0	46
11:15			27	0	27	23:15			36	0	36
11:30			31	0	31	23:30			62	0	62
11:45			25	102	25 102	23:45			64	208	64 208
TOTALS			969		969	TOTALS			2413		2413
SPLIT %			100.0%		28.7%	SPLIT %			100.0%		71.3%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	3,382	0	3,382

AM Peak Hour			11:30		11:30	PM Peak Hour			19:45		19:45
AM Pk Volume			142		142	PM Pk Volume			259		259
Pk Hr Factor			0.740		0.740	Pk Hr Factor			0.925		0.925
7 - 9 Volume	0	0	106	0	106	4 - 6 Volume	0	0	383	0	383
7 - 9 Peak Hour			7:00		7:00	4 - 6 Peak Hour			16:00		16:00
7 - 9 Pk Volume	0	0	57	0	57	4 - 6 Pk Volume	0	0	193	0	193
Pk Hr Factor	0.000	0.000	0.792	0.000	0.792	Pk Hr Factor	0.000	0.000	0.778	0.000	0.778

VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Friday
Date: 4/29/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	3,821	0	3,821		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			41	0	41	12:00			37	0	37
0:15			34	0	34	12:15			35	0	35
0:30			51	0	51	12:30			28	0	28
0:45			32	158	32 158	12:45			37	137	37 137
1:00			40	0	40	13:00			45	0	45
1:15			38	0	38	13:15			43	0	43
1:30			33	0	33	13:30			54	0	54
1:45			28	139	28 139	13:45			43	185	43 185
2:00			27	0	27	14:00			37	0	37
2:15			33	0	33	14:15			39	0	39
2:30			21	0	21	14:30			50	0	50
2:45			33	114	33 114	14:45			47	173	47 173
3:00			27	0	27	15:00			53	0	53
3:15			28	0	28	15:15			44	0	44
3:30			27	0	27	15:30			62	0	62
3:45			21	103	21 103	15:45			41	200	41 200
4:00			25	0	25	16:00			46	0	46
4:15			24	0	24	16:15			48	0	48
4:30			19	0	19	16:30			43	0	43
4:45			14	82	14 82	16:45			42	179	42 179
5:00			14	0	14	17:00			38	0	38
5:15			20	0	20	17:15			50	0	50
5:30			17	0	17	17:30			53	0	53
5:45			11	62	11 62	17:45			55	196	55 196
6:00			10	0	10	18:00			62	0	62
6:15			17	0	17	18:15			30	0	30
6:30			19	0	19	18:30			41	0	41
6:45			13	59	13 59	18:45			40	173	40 173
7:00			17	0	17	19:00			55	0	55
7:15			9	0	9	19:15			42	0	42
7:30			15	0	15	19:30			42	0	42
7:45			9	50	9 50	19:45			53	192	53 192
8:00			16	0	16	20:00			103	0	103
8:15			5	0	5	20:15			105	0	105
8:30			13	0	13	20:30			76	0	76
8:45			6	40	6 40	20:45			77	361	77 361
9:00			4	0	4	21:00			94	0	94
9:15			15	0	15	21:15			90	0	90
9:30			15	0	15	21:30			76	0	76
9:45			19	53	19 53	21:45			59	319	59 319
10:00			24	0	24	22:00			95	0	95
10:15			21	0	21	22:15			92	0	92
10:30			21	0	21	22:30			63	0	63
10:45			9	75	9 75	22:45			80	330	80 330
11:00			18	0	18	23:00			69	0	69
11:15			32	0	32	23:15			86	0	86
11:30			20	0	20	23:30			99	0	99
11:45			38	108	38 108	23:45			79	333	79 333
TOTALS			1043		1043	TOTALS			2778		2778
SPLIT %			100.0%		27.3%	SPLIT %			100.0%		72.7%

DAILY TOTALS					NB	SB	EB	WB	Total	
					0	0	3,821	0	3,821	
AM Peak Hour			0:30		0:30	PM Peak Hour			20:00	20:00
AM Pk Volume			161		161	PM Pk Volume			361	361
Pk Hr Factor			0.789		0.789	Pk Hr Factor			0.860	0.860
7 - 9 Volume	0	0	90	0	90	4 - 6 Volume	0	0	375	0 375
7 - 9 Peak Hour			7:00		7:00	4 - 6 Peak Hour			17:00	17:00
7 - 9 Pk Volume	0	0	50	0	50	4 - 6 Pk Volume	0	0	196	0 196
Pk Hr Factor	0.000	0.000	0.735	0.000	0.735	Pk Hr Factor	0.000	0.000	0.891	0.000 0.891

VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Saturday
Date: 4/30/2022

City: Jamul
Project #: CA22_040057_003

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	4,819	0	4,819

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00			69	0	69	12:00			54	0	54
0:15			64	0	64	12:15			47	0	47
0:30			52	0	52	12:30			30	0	30
0:45			65	250	65 250	12:45			36	167	36 167
1:00			66	0	66	13:00			55	0	55
1:15			35	0	35	13:15			51	0	51
1:30			65	0	65	13:30			59	0	59
1:45			61	227	61 227	13:45			83	248	83 248
2:00			49	0	49	14:00			78	0	78
2:15			38	0	38	14:15			85	0	85
2:30			61	0	61	14:30			74	0	74
2:45			44	192	44 192	14:45			82	319	82 319
3:00			48	0	48	15:00			69	0	69
3:15			30	0	30	15:15			80	0	80
3:30			30	0	30	15:30			77	0	77
3:45			24	132	24 132	15:45			61	287	61 287
4:00			28	0	28	16:00			62	0	62
4:15			28	0	28	16:15			63	0	63
4:30			26	0	26	16:30			77	0	77
4:45			22	104	22 104	16:45			57	259	57 259
5:00			30	0	30	17:00			71	0	71
5:15			12	0	12	17:15			66	0	66
5:30			22	0	22	17:30			70	0	70
5:45			20	84	20 84	17:45			68	275	68 275
6:00			18	0	18	18:00			62	0	62
6:15			17	0	17	18:15			62	0	62
6:30			24	0	24	18:30			68	0	68
6:45			14	73	14 73	18:45			65	257	65 257
7:00			19	0	19	19:00			71	0	71
7:15			21	0	21	19:15			71	0	71
7:30			27	0	27	19:30			70	0	70
7:45			24	91	24 91	19:45			62	274	62 274
8:00			23	0	23	20:00			86	0	86
8:15			20	0	20	20:15			57	0	57
8:30			23	0	23	20:30			76	0	76
8:45			20	86	20 86	20:45			68	287	68 287
9:00			17	0	17	21:00			73	0	73
9:15			19	0	19	21:15			58	0	58
9:30			20	0	20	21:30			68	0	68
9:45			34	90	34 90	21:45			57	256	57 256
10:00			34	0	34	22:00			100	0	100
10:15			26	0	26	22:15			63	0	63
10:30			29	0	29	22:30			82	0	82
10:45			35	124	35 124	22:45			59	304	59 304
11:00			24	0	24	23:00			84	0	84
11:15			30	0	30	23:15			56	0	56
11:30			33	0	33	23:30			91	0	91
11:45			41	128	41 128	23:45			74	305	74 305
TOTALS			1581		1581	TOTALS			3238		3238
SPLIT %			100.0%		32.8%	SPLIT %			100.0%		67.2%

DAILY TOTALS				NB	SB	EB	WB	Total
				0	0	4,819	0	4,819

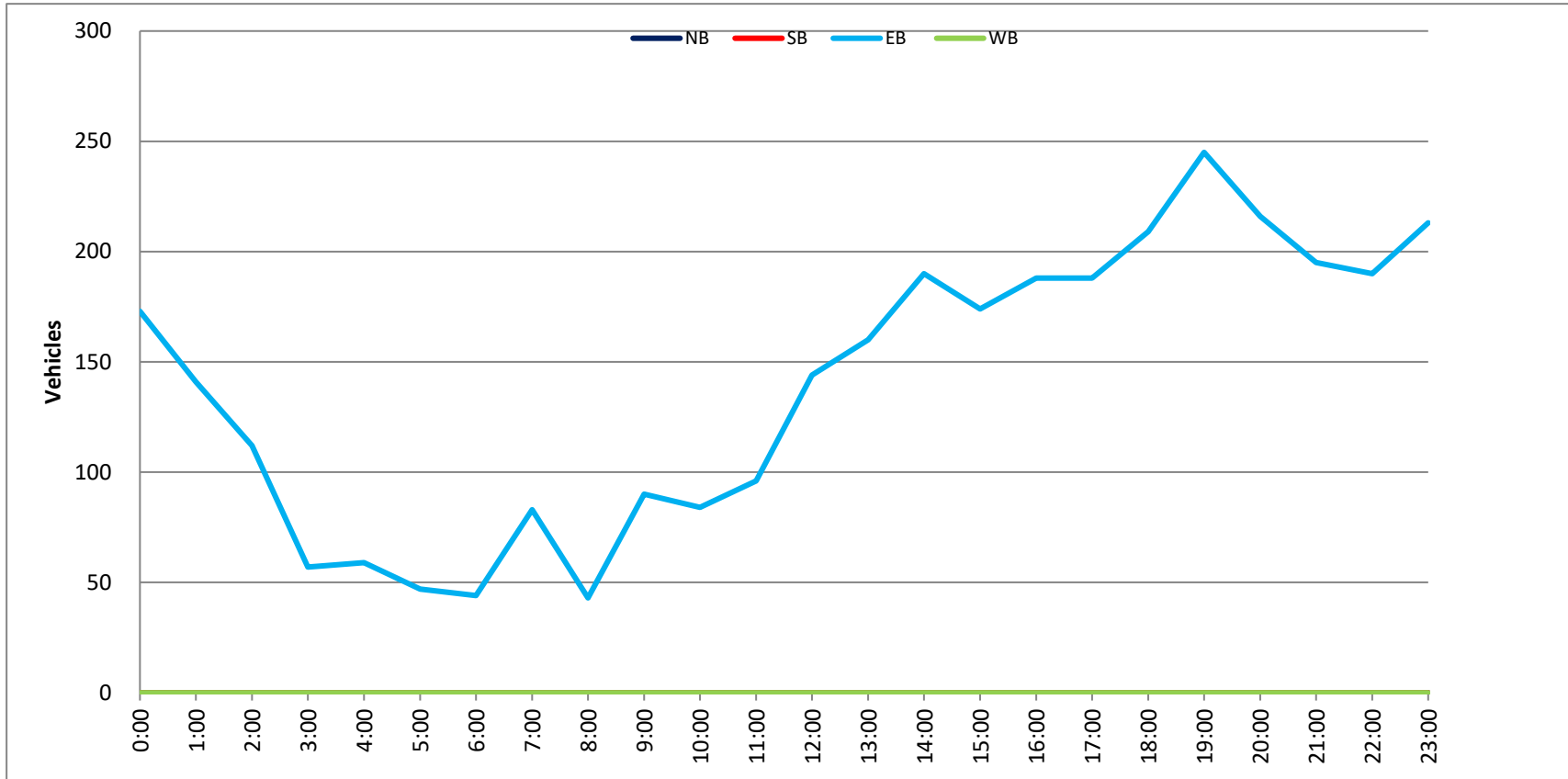
AM Peak Hour						PM Peak Hour	13:45	13:45
AM Pk Volume			250		250	PM Pk Volume		320
Pk Hr Factor			0.906		0.906	Pk Hr Factor		0.941
7 - 9 Volume	0	0	177	0	177	4 - 6 Volume	0	534
7 - 9 Peak Hour			7:15		7:15	4 - 6 Peak Hour		17:00
7 - 9 Pk Volume	0	0	95	0	95	4 - 6 Pk Volume	0	275
Pk Hr Factor	0.000	0.000	0.880	0.000	0.880	Pk Hr Factor	0.000	0.968

Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/26/2022

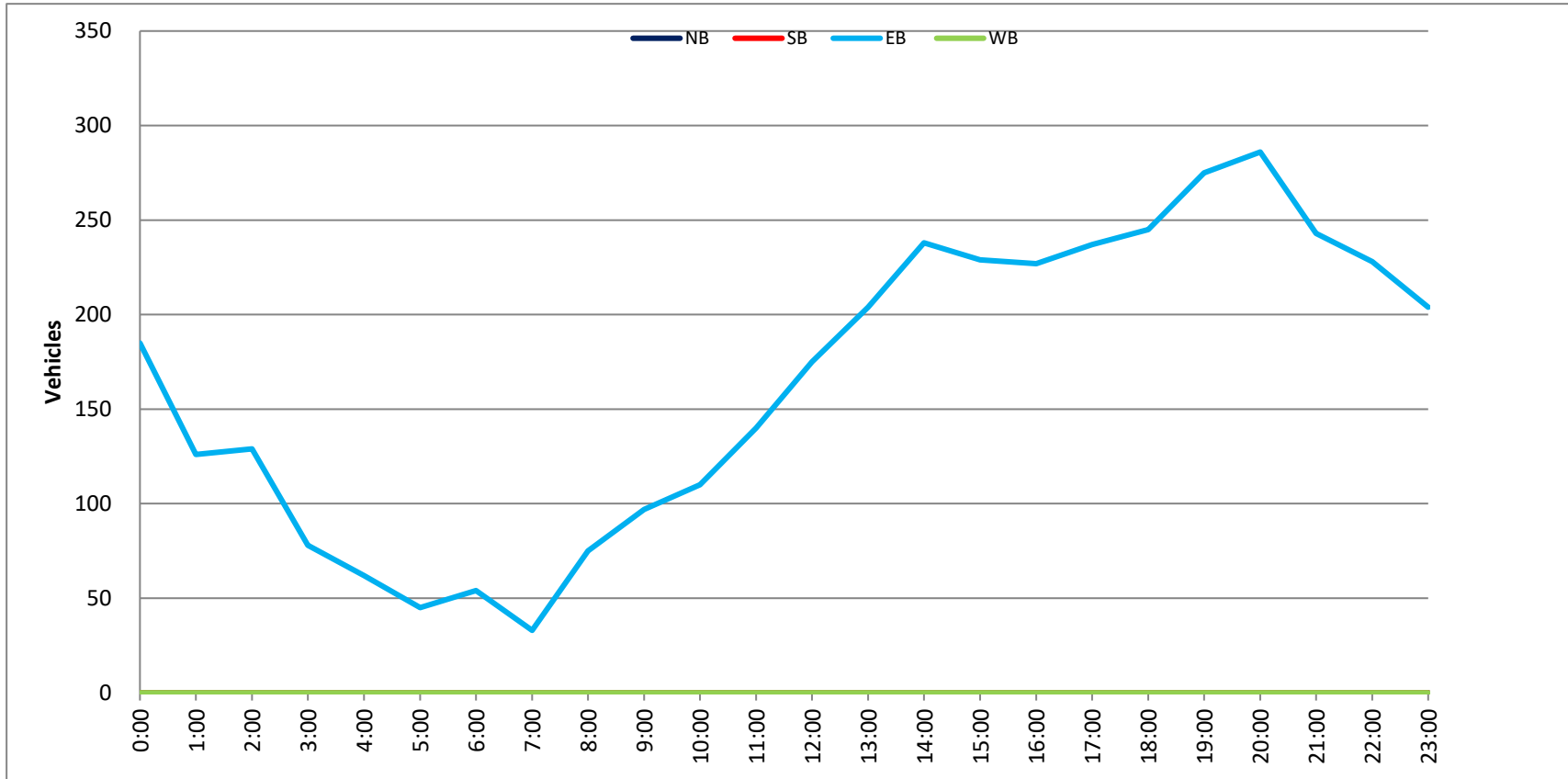


Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/27/2022

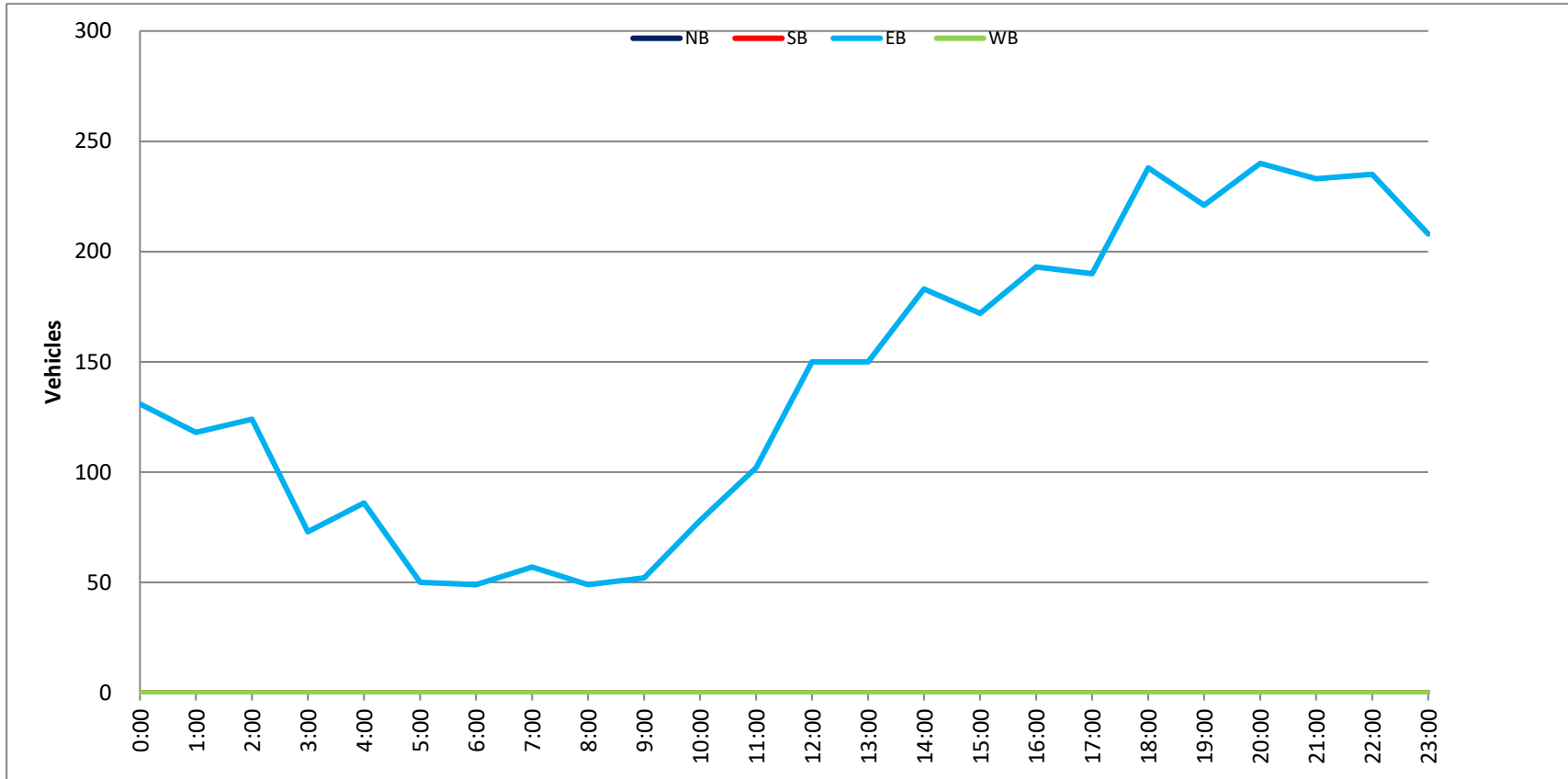


Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/28/2022

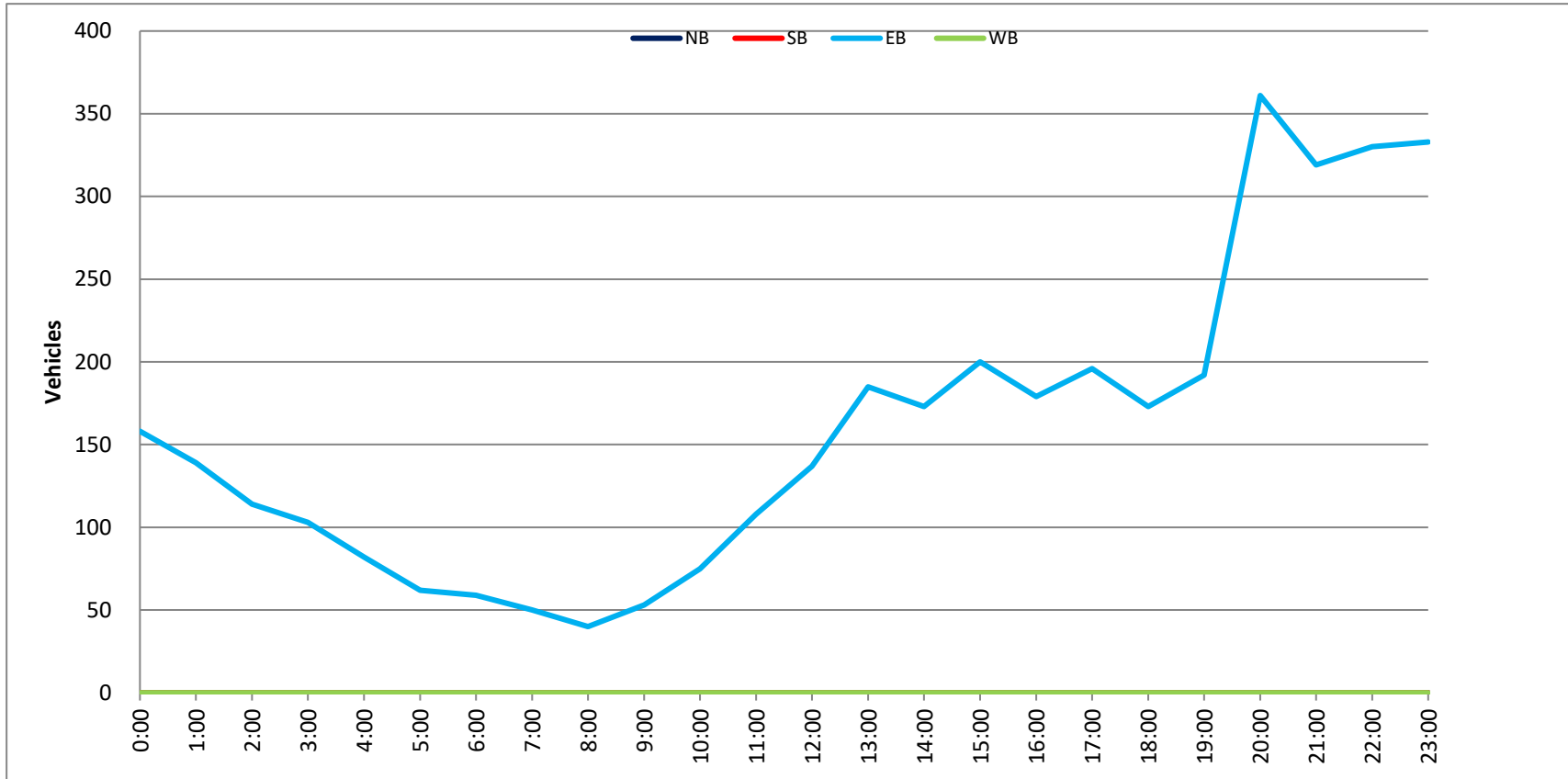


Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/29/2022

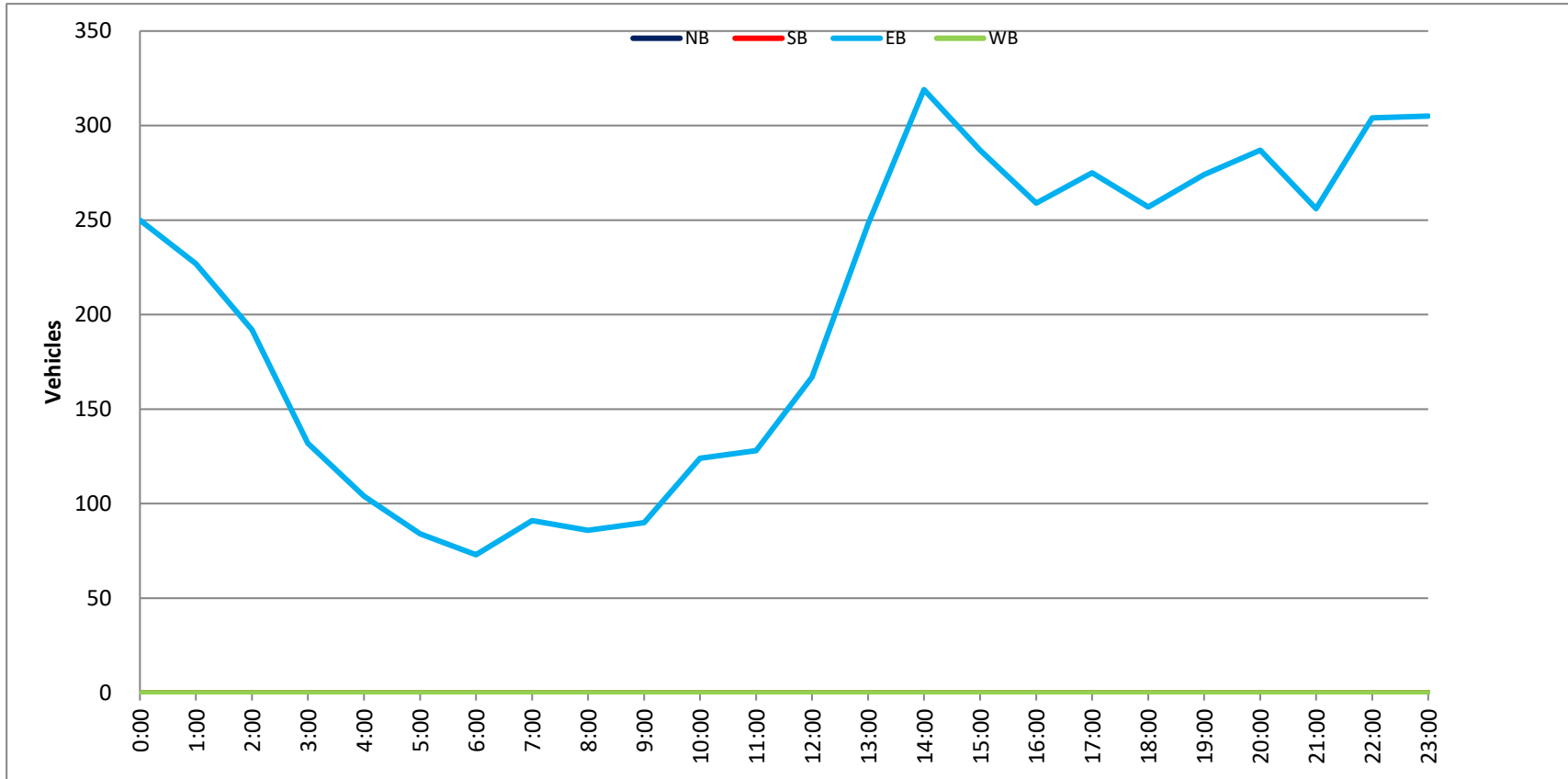


Project #: CA22_040057_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 4/30/2022



VOLUME

14145 Campo Rd Driveway Entrance

Day: Friday
Date: 11/4/2022

City: Jamul
Project #: CA22_040198_001

DAILY TOTALS						NB	SB					Total
						0	1,015	0	0			1,015
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL	
0:00	0	20			20	12:00	0	0			0	
0:15	0	20			20	12:15	0	0			0	
0:30	0	21			21	12:30	0	0			0	
0:45	0	23	84		23 84	12:45	0	0			0	
1:00	0	14			14	13:00	0	0			0	
1:15	0	27			27	13:15	0	0			0	
1:30	0	16			16	13:30	0	0			0	
1:45	0	18	75		18 75	13:45	0	0			0	
2:00	0	13			13	14:00	0	0			0	
2:15	0	16			16	14:15	0	0			0	
2:30	0	6			6	14:30	0	0			0	
2:45	0	11	46		11 46	14:45	0	0			0	
3:00	0	13			13	15:00	0	0			0	
3:15	0	12			12	15:15	0	0			0	
3:30	0	14			14	15:30	0	0			0	
3:45	0	8	47		8 47	15:45	0	0			0	
4:00	0	9			9	16:00	0	0			0	
4:15	0	10			10	16:15	0	0			0	
4:30	0	17			17	16:30	0	0			0	
4:45	0	19	55		19 55	16:45	0	0			0	
5:00	0	8			8	17:00	0	0			0	
5:15	0	11			11	17:15	0	0			0	
5:30	0	26			26	17:30	0	0			0	
5:45	0	23	68		23 68	17:45	0	0			0	
6:00	0	16			16	18:00	0	0			0	
6:15	0	19			19	18:15	0	0			0	
6:30	0	23			23	18:30	0	0			0	
6:45	0	36	94		36 94	18:45	0	0			0	
7:00	0	22			22	19:00	0	0			0	
7:15	0	28			28	19:15	0	0			0	
7:30	0	16			16	19:30	0	0			0	
7:45	0	32	98		32 98	19:45	0	0			0	
8:00	0	12			12	20:00	0	0			0	
8:15	0	32			32	20:15	0	0			0	
8:30	0	42			42	20:30	0	0			0	
8:45	0	35	121		35 121	20:45	0	0			0	
9:00	0	56			56	21:00	0	0			0	
9:15	0	66			66	21:15	0	0			0	
9:30	0	79			79	21:30	0	0			0	
9:45	0	71	272		71 272	21:45	0	0			0	
10:00	0	55			55	22:00	0	0			0	
10:15	0	0			0	22:15	0	0			0	
10:30	0	0			0	22:30	0	0			0	
10:45	0	0	55		0 55	22:45	0	0			0	
11:00	0	0			0	23:00	0	0			0	
11:15	0	0			0	23:15	0	0			0	
11:30	0	0			0	23:30	0	0			0	
11:45	0	0			0	23:45	0	0			0	
TOTALS		1015			1015	TOTALS					0	
SPLIT %		100.0%			100.0%	SPLIT %					0.0%	

DAILY TOTALS						NB	SB					Total
						0	1,015	0	0			1,015

AM Peak Hour	9:00	9:00	PM Peak Hour	9:00							
AM Pk Volume	272	272	PM Pk Volume	272							
PK Hr Factor	0.861	0.861	PK Hr Factor	0.861							
7 - 9 Volume	0	219	0	0	219	4 - 6 Volume	0	0	0	0	0
7 - 9 Peak Hour	8:00	8:00	4 - 6 Peak Hour	8:00							
7 - 9 Pk Volume	0	121	0	0	121	4 - 6 Pk Volume	0	0	0	0	0
PK Hr Factor	0.000	0.720	0.000	0.000	0.720	PK Hr Factor	0.000	0.000	0.000	0.000	0.000

VOLUME

14145 Campo Rd Driveway Entrance

Day: Saturday
Date: 11/5/2022

City: Jamul
Project #: CA22_040198_001

DAILY TOTALS					NB	SB	EB	WB	Total
					0	0	0	0	0

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	0	0			0	12:00	0	0			0
0:15	0	0			0	12:15	0	0			0
0:30	0	0			0	12:30	0	0			0
0:45	0	0			0	12:45	0	0			0
1:00	0	0			0	13:00	0	0			0
1:15	0	0			0	13:15	0	0			0
1:30	0	0			0	13:30	0	0			0
1:45	0	0			0	13:45	0	0			0
2:00	0	0			0	14:00	0	0			0
2:15	0	0			0	14:15	0	0			0
2:30	0	0			0	14:30	0	0			0
2:45	0	0			0	14:45	0	0			0
3:00	0	0			0	15:00	0	0			0
3:15	0	0			0	15:15	0	0			0
3:30	0	0			0	15:30	0	0			0
3:45	0	0			0	15:45	0	0			0
4:00	0	0			0	16:00	0	0			0
4:15	0	0			0	16:15	0	0			0
4:30	0	0			0	16:30	0	0			0
4:45	0	0			0	16:45	0	0			0
5:00	0	0			0	17:00	0	0			0
5:15	0	0			0	17:15	0	0			0
5:30	0	0			0	17:30	0	0			0
5:45	0	0			0	17:45	0	0			0
6:00	0	0			0	18:00	0	0			0
6:15	0	0			0	18:15	0	0			0
6:30	0	0			0	18:30	0	0			0
6:45	0	0			0	18:45	0	0			0
7:00	0	0			0	19:00	0	0			0
7:15	0	0			0	19:15	0	0			0
7:30	0	0			0	19:30	0	0			0
7:45	0	0			0	19:45	0	0			0
8:00	0	0			0	20:00	0	0			0
8:15	0	0			0	20:15	0	0			0
8:30	0	0			0	20:30	0	0			0
8:45	0	0			0	20:45	0	0			0
9:00	0	0			0	21:00	0	0			0
9:15	0	0			0	21:15	0	0			0
9:30	0	0			0	21:30	0	0			0
9:45	0	0			0	21:45	0	0			0
10:00	0	0			0	22:00	0	0			0
10:15	0	0			0	22:15	0	0			0
10:30	0	0			0	22:30	0	0			0
10:45	0	0			0	22:45	0	0			0
11:00	0	0			0	23:00	0	0			0
11:15	0	0			0	23:15	0	0			0
11:30	0	0			0	23:30	0	0			0
11:45	0	0			0	23:45	0	0			0
TOTALS					0	TOTALS					0
SPLIT %					#DIV/0!	SPLIT %					#DIV/0!

DAILY TOTALS					NB	SB	EB	WB	Total
					0	0	0	0	0

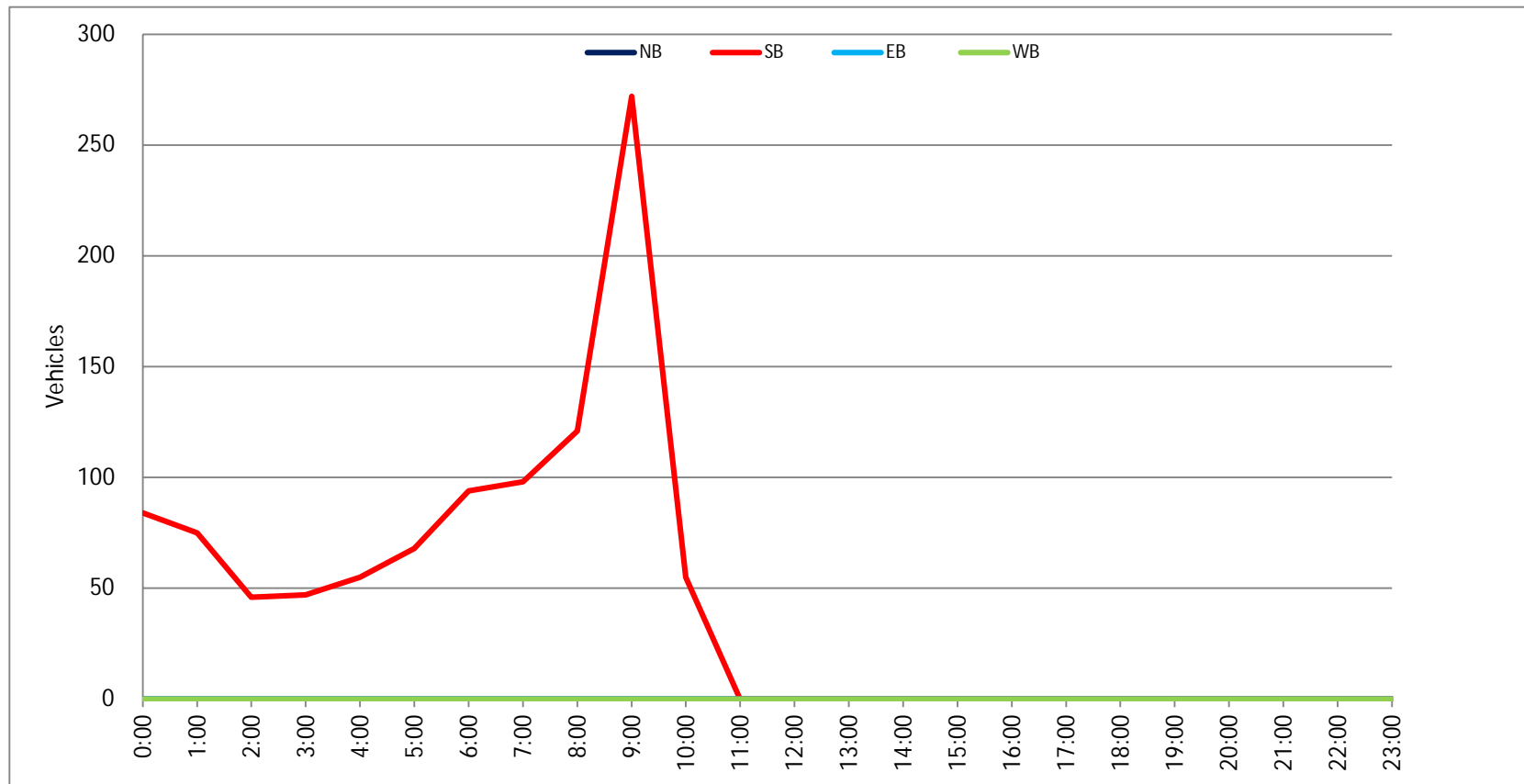
AM Peak Hour						PM Peak Hour					
AM Pk Volume						PM Pk Volume					
PK Hr Factor						PK Hr Factor					
7 - 9 Volume	0	0	0	0	0	4 - 6 Volume	0	0	0	0	0
7 - 9 Peak Hour						4 - 6 Peak Hour					
7 - 9 Pk Volume	0	0	0	0	0	4 - 6 Pk Volume	0	0	0	0	0
PK Hr Factor	0.000	0.000	0.000	0.000	0.000	PK Hr Factor	0.000	0.000	0.000	0.000	0.000

Project #: CA22_040198_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 11/4/2022

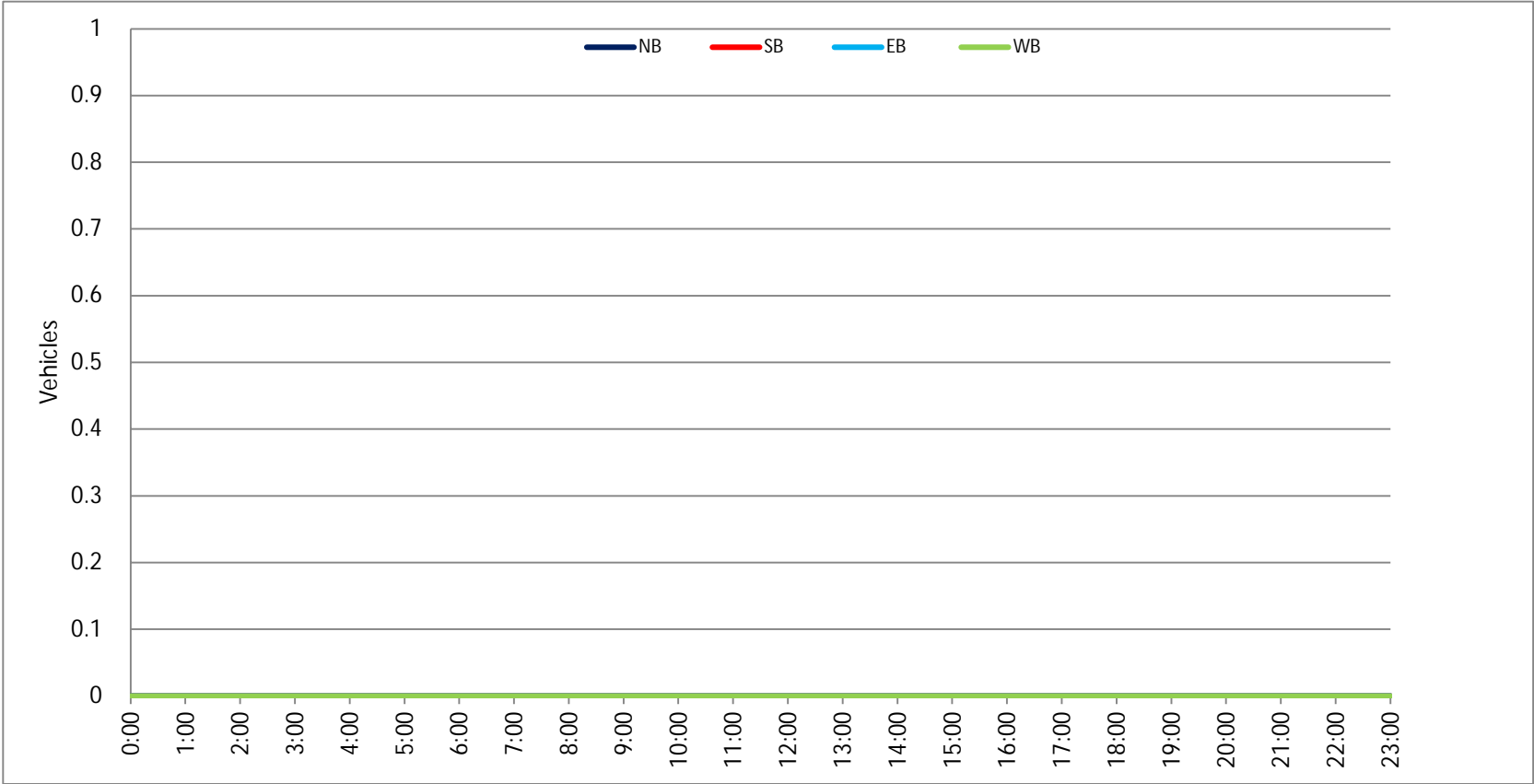


Project #: CA22_040198_001

City: Jamul

Location: 14145 Campo Rd Driveway Entrance

Date: 11/5/2022



VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Friday
Date: 11/4/2022

City: Jamul
Project #: CA22_040198_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					2,371	0	0	0	2,371		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	36	0			36	12:00	14	0			14
0:15	32	0			32	12:15	27	0			27
0:30	28	0			28	12:30	17	0			17
0:45	22	118	0		22	12:45	23	81	0		23
1:00	28	0			28	13:00	25	0			25
1:15	32	0			32	13:15	19	0			19
1:30	19	0			19	13:30	32	0			32
1:45	18	97	0		18	13:45	20	96	0		20
2:00	28	0			28	14:00	24	0			24
2:15	17	0			17	14:15	25	0			25
2:30	16	0			16	14:30	36	0			36
2:45	24	85	0		24	14:45	32	117	0		32
3:00	9	0			9	15:00	25	0			25
3:15	17	0			17	15:15	36	0			36
3:30	4	0			4	15:30	34	0			34
3:45	21	51	0		21	15:45	20	115	0		20
4:00	13	0			13	16:00	24	0			24
4:15	13	0			13	16:15	27	0			27
4:30	11	0			11	16:30	30	0			30
4:45	12	49	0		12	16:45	30	111	0		30
5:00	5	0			5	17:00	47	0			47
5:15	8	0			8	17:15	39	0			39
5:30	14	0			14	17:30	29	0			29
5:45	5	32	0		5	17:45	37	152	0		37
6:00	8	0			8	18:00	24	0			24
6:15	5	0			5	18:15	36	0			36
6:30	19	0			19	18:30	28	0			28
6:45	9	41	0		9	18:45	37	125	0		37
7:00	8	0			8	19:00	37	0			37
7:15	3	0			3	19:15	27	0			27
7:30	10	0			10	19:30	34	0			34
7:45	7	28	0		7	19:45	38	136	0		38
8:00	10	0			10	20:00	48	0			48
8:15	13	0			13	20:15	43	0			43
8:30	2	0			2	20:30	33	0			33
8:45	2	27	0		2	20:45	53	177	0		53
9:00	15	0			15	21:00	36	0			36
9:15	20	0			20	21:15	36	0			36
9:30	2	0			2	21:30	32	0			32
9:45	10	47	0		10	21:45	53	157	0		53
10:00	21	0			21	22:00	44	0			44
10:15	6	0			6	22:15	36	0			36
10:30	18	0			18	22:30	57	0			57
10:45	22	67	0		22	22:45	54	191	0		54
11:00	15	0			15	23:00	69	0			69
11:15	12	0			12	23:15	42	0			42
11:30	16	0			16	23:30	51	0			51
11:45	17	60	0		17	23:45	49	211	0		49
TOTALS	702				702	TOTALS	1669				1669
SPLIT %	100.0%				29.6%	SPLIT %	100.0%				70.4%

DAILY TOTALS					NB	SB	EB	WB	Total
					2,371	0	0	0	2,371

AM Peak Hour					PM Peak Hour	22:30			22:30
AM Pk Volume	118			118	PM Pk Volume	222			222
PK Hr Factor	0.819			0.819	PK Hr Factor	0.804			0.804
7 - 9 Volume	55	0	0	55	4 - 6 Volume	263	0	0	263
7 - 9 Peak Hour	7:30			7:30	4 - 6 Peak Hour	17:00			17:00
7 - 9 Pk Volume	40	0	0	40	Volume	152	0	0	152
PK Hr Factor	0.769	0.000	0.000	0.769	PK Hr Factor	0.809	0.000	0.000	0.809

VOLUME

14145 Campo Rd Driveway Exit (Right Lane)

Day: Saturday
Date: 11/5/2022

City: Jamul
Project #: CA22_040198_002

DAILY TOTALS					NB	SB	EB	WB	Total
					3,118	0	0	0	3,118

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	41	0			41	12:00	21	0			21
0:15	55	0			55	12:15	17	0			17
0:30	31	0			31	12:30	32	0			32
0:45	34	161	0		34	12:45	39	109	0		39
1:00	22	0			22	13:00	34	0			34
1:15	44	0			44	13:15	47	0			47
1:30	40	0			40	13:30	35	0			35
1:45	27	133	0		27	13:45	43	159	0		43
2:00	46	0			46	14:00	58	0			58
2:15	37	0			37	14:15	48	0			48
2:30	38	0			38	14:30	66	0			66
2:45	5	126	0		5	14:45	46	218	0		46
3:00	24	0			24	15:00	39	0			39
3:15	18	0			18	15:15	48	0			48
3:30	18	0			18	15:30	58	0			58
3:45	19	79	0		19	15:45	54	199	0		54
4:00	11	0			11	16:00	37	0			37
4:15	29	0			29	16:15	38	0			38
4:30	4	0			4	16:30	47	0			47
4:45	4	48	0		4	16:45	36	158	0		36
5:00	16	0			16	17:00	44	0			44
5:15	10	0			10	17:15	42	0			42
5:30	4	0			4	17:30	34	0			34
5:45	10	40	0		10	17:45	54	174	0		54
6:00	6	0			6	18:00	46	0			46
6:15	7	0			7	18:15	51	0			51
6:30	6	0			6	18:30	56	0			56
6:45	22	41	0		22	18:45	59	212	0		59
7:00	2	0			2	19:00	67	0			67
7:15	15	0			15	19:15	55	0			55
7:30	10	0			10	19:30	55	0			55
7:45	2	29	0		2	19:45	49	226	0		49
8:00	10	0			10	20:00	42	0			42
8:15	13	0			13	20:15	62	0			62
8:30	15	0			15	20:30	29	0			29
8:45	6	44	0		6	20:45	43	176	0		43
9:00	30	0			30	21:00	40	0			40
9:15	8	0			8	21:15	48	0			48
9:30	16	0			16	21:30	25	0			25
9:45	22	76	0		22	21:45	44	157	0		44
10:00	13	0			13	22:00	58	0			58
10:15	18	0			18	22:15	42	0			42
10:30	15	0			15	22:30	71	0			71
10:45	14	60	0		14	22:45	41	212	0		41
11:00	26	0			26	23:00	48	0			48
11:15	16	0			16	23:15	54	0			54
11:30	10	0			10	23:30	55	0			55
11:45	20	72	0		20	23:45	52	209	0		52
TOTALS	909				909	TOTALS	2209				2209
SPLIT %	100.0%				29.2%	SPLIT %	100.0%				70.8%

DAILY TOTALS					NB	SB	EB	WB	Total
					3,118	0	0	0	3,118

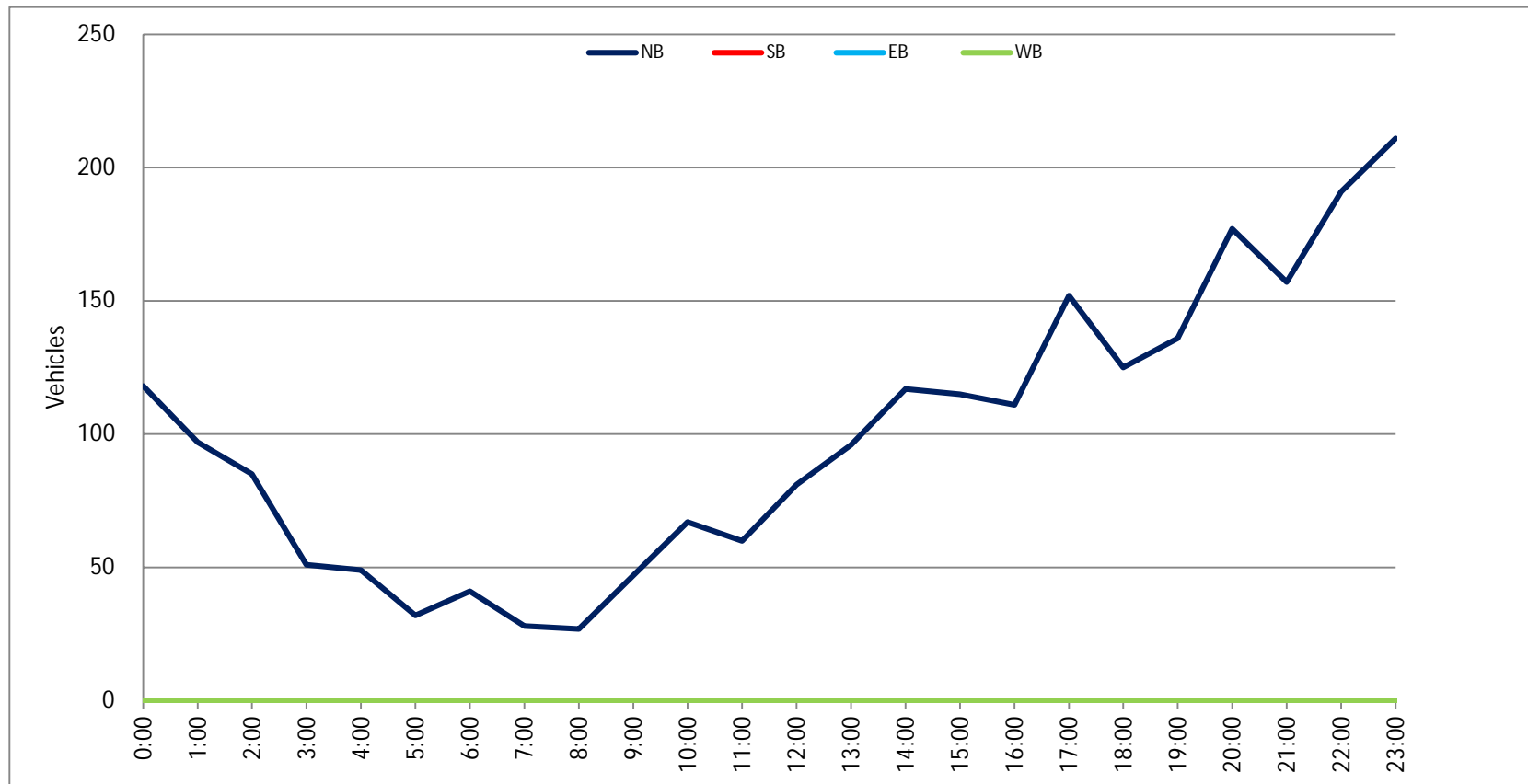
AM Peak Hour					PM Peak Hour	18:30			18:30
AM Pk Volume	161			161	PM Pk Volume	237			237
PK Hr Factor	0.732			0.732	PK Hr Factor	0.884			0.884
7 - 9 Volume	73	0	0	73	4 - 6 Volume	332	0	0	332
7 - 9 Peak Hour	8:00			8:00	4 - 6 Peak Hour	17:00			17:00
7 - 9 Pk Volume	44	0	0	44	Volume	174	0	0	174
PK Hr Factor	0.733	0.000	0.000	0.733	Pk Hr Factor	0.806	0.000	0.000	0.806

Project #: CA22_040198_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 11/4/2022

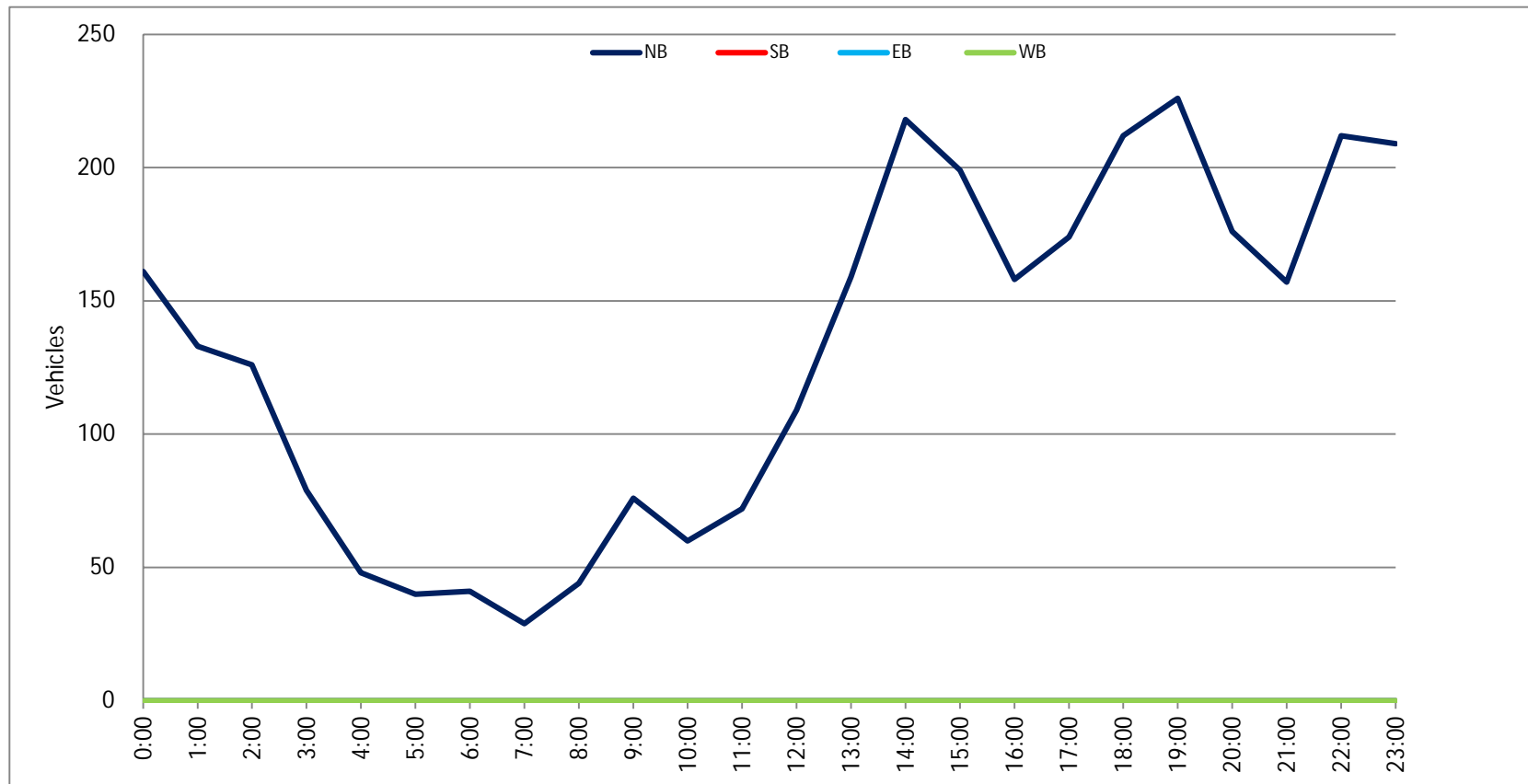


Project #: CA22_040198_002

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Right Lane)

Date: 11/5/2022



VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Friday
Date: 11/4/2022

City: Jamul
Project #: CA22_040198_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					1,105	0	0	0	1,105		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	15	0			15	12:00	21	0			21
0:15	16	0			16	12:15	8	0			8
0:30	16	0			16	12:30	9	0			9
0:45	16	63	0		16	12:45	11	49	0		11
1:00	10	0			10	13:00	11	0			11
1:15	15	0			15	13:15	19	0			19
1:30	11	0			11	13:30	13	0			13
1:45	13	49	0		13	13:45	16	59	0		16
2:00	10	0			10	14:00	12	0			12
2:15	15	0			15	14:15	21	0			21
2:30	11	0			11	14:30	17	0			17
2:45	5	41	0		5	14:45	9	59	0		9
3:00	9	0			9	15:00	10	0			10
3:15	9	0			9	15:15	11	0			11
3:30	17	0			17	15:30	11	0			11
3:45	7	42	0		7	15:45	14	46	0		14
4:00	13	0			13	16:00	16	0			16
4:15	7	0			7	16:15	15	0			15
4:30	8	0			8	16:30	11	0			11
4:45	7	35	0		7	16:45	13	55	0		13
5:00	10	0			10	17:00	4	0			4
5:15	7	0			7	17:15	14	0			14
5:30	5	0			5	17:30	14	0			14
5:45	7	29	0		7	17:45	11	43	0		11
6:00	6	0			6	18:00	18	0			18
6:15	9	0			9	18:15	12	0			12
6:30	4	0			4	18:30	11	0			11
6:45	6	25	0		6	18:45	10	51	0		10
7:00	7	0			7	19:00	14	0			14
7:15	6	0			6	19:15	14	0			14
7:30	5	0			5	19:30	20	0			20
7:45	8	26	0		8	19:45	15	63	0		15
8:00	3	0			3	20:00	11	0			11
8:15	4	0			4	20:15	13	0			13
8:30	10	0			10	20:30	12	0			12
8:45	6	23	0		6	20:45	13	49	0		13
9:00	4	0			4	21:00	10	0			10
9:15	6	0			6	21:15	12	0			12
9:30	10	0			10	21:30	12	0			12
9:45	11	31	0		11	21:45	15	49	0		15
10:00	4	0			4	22:00	18	0			18
10:15	9	0			9	22:15	17	0			17
10:30	10	0			10	22:30	18	0			18
10:45	4	27	0		4	22:45	26	79	0		26
11:00	8	0			8	23:00	17	0			17
11:15	10	0			10	23:15	17	0			17
11:30	9	0			9	23:30	21	0			21
11:45	9	36	0		9	23:45	21	76	0		21
TOTALS	427				427	TOTALS	678				678
SPLIT %	100.0%				38.6%	SPLIT %	100.0%				61.4%

DAILY TOTALS					NB	SB	EB	WB	Total
					1,105	0	0	0	1,105

AM Peak Hour					PM Peak Hour	22:45			22:45
AM Pk Volume	63			63	PM Pk Volume	81			81
PK Hr Factor	0.984			0.984	PK Hr Factor	0.779			0.779
7 - 9 Volume	49	0	0	49	4 - 6 Volume	98	0	0	98
7 - 9 Peak Hour	7:00			7:00	4 - 6 Peak Hour	16:00			16:00
7 - 9 Pk Volume	26	0	0	26	Volume	55	0	0	55
PK Hr Factor	0.813	0.000	0.000	0.813	PK Hr Factor	0.859	0.000	0.000	0.859

VOLUME

14145 Campo Rd Driveway Exit (Left Lane)

Day: Saturday
Date: 11/5/2022

City: Jamul
Project #: CA22_040198_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					1,299	0	0	0	1,299		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	18	0			18	12:00	9	0			9
0:15	15	0			15	12:15	19	0			19
0:30	24	0			24	12:30	10	0			10
0:45	20	77	0		20	12:45	11	49	0		11
1:00	19	0			19	13:00	13	0			13
1:15	15	0			15	13:15	9	0			9
1:30	15	0			15	13:30	15	0			15
1:45	23	72	0		23	13:45	13	50	0		13
2:00	7	0			7	14:00	10	0			10
2:15	13	0			13	14:15	8	0			8
2:30	18	0			18	14:30	17	0			17
2:45	21	59	0		21	14:45	16	51	0		16
3:00	16	0			16	15:00	13	0			13
3:15	15	0			15	15:15	12	0			12
3:30	9	0			9	15:30	15	0			15
3:45	12	52	0		12	15:45	18	58	0		18
4:00	7	0			7	16:00	20	0			20
4:15	7	0			7	16:15	22	0			22
4:30	12	0			12	16:30	16	0			16
4:45	9	35	0		9	16:45	16	74	0		16
5:00	7	0			7	17:00	22	0			22
5:15	7	0			7	17:15	21	0			21
5:30	6	0			6	17:30	17	0			17
5:45	8	28	0		8	17:45	11	71	0		11
6:00	4	0			4	18:00	14	0			14
6:15	10	0			10	18:15	15	0			15
6:30	11	0			11	18:30	14	0			14
6:45	9	34	0		9	18:45	13	56	0		13
7:00	15	0			15	19:00	12	0			12
7:15	6	0			6	19:15	12	0			12
7:30	15	0			15	19:30	14	0			14
7:45	9	45	0		9	19:45	14	52	0		14
8:00	9	0			9	20:00	21	0			21
8:15	8	0			8	20:15	16	0			16
8:30	10	0			10	20:30	21	0			21
8:45	12	39	0		12	20:45	18	76	0		18
9:00	5	0			5	21:00	26	0			26
9:15	8	0			8	21:15	15	0			15
9:30	3	0			3	21:30	24	0			24
9:45	5	21	0		5	21:45	13	78	0		13
10:00	9	0			9	22:00	22	0			22
10:15	1	0			1	22:15	23	0			23
10:30	11	0			11	22:30	13	0			13
10:45	9	30	0		9	22:45	21	79	0		21
11:00	5	0			5	23:00	19	0			19
11:15	13	0			13	23:15	13	0			13
11:30	9	0			9	23:30	25	0			25
11:45	7	34	0		7	23:45	22	79	0		22
TOTALS	526				526	TOTALS	773				773
SPLIT %	100.0%				40.5%	SPLIT %	100.0%				59.5%

DAILY TOTALS					NB	SB	EB	WB	Total
					1,299	0	0	0	1,299

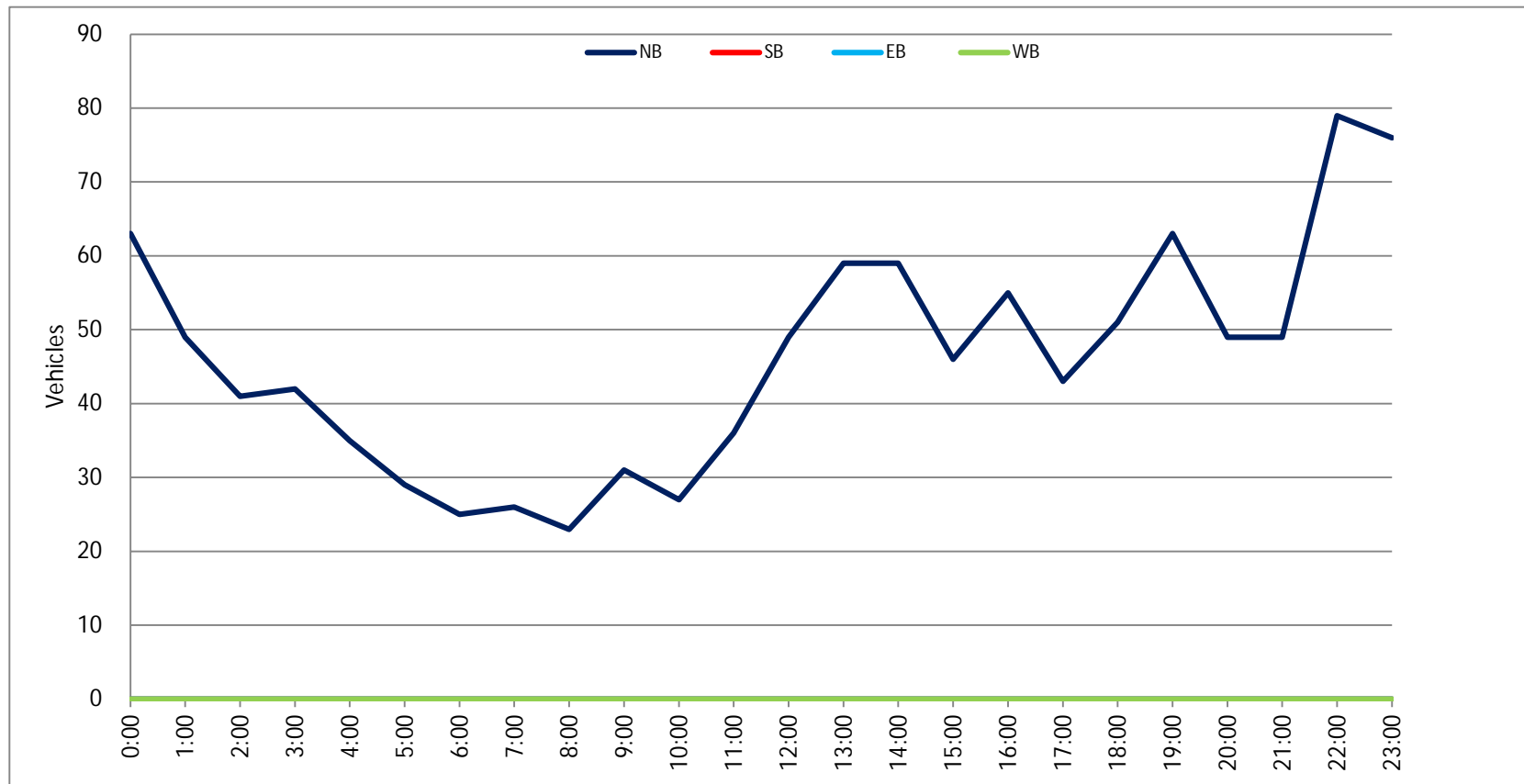
AM Peak Hour	0:15				0:15	PM Peak Hour	20:45				20:45
AM Pk Volume	78				78	PM Pk Volume	83				83
PK Hr Factor	0.813				0.813	PK Hr Factor	0.798				0.798
7 - 9 Volume	84	0	0	0	84	4 - 6 Volume	145	0	0	0	145
7 - 9 Peak Hour	7:00				7:00	4 - 6 Peak Hour	16:15				16:15
7 - 9 Pk Volume	45	0	0	0	45	Volume	76	0	0	0	76
PK Hr Factor	0.750	0.000	0.000	0.000	0.750	PK Hr Factor	0.864	0.000	0.000	0.000	0.864

Project #: CA22_040198_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 11/4/2022

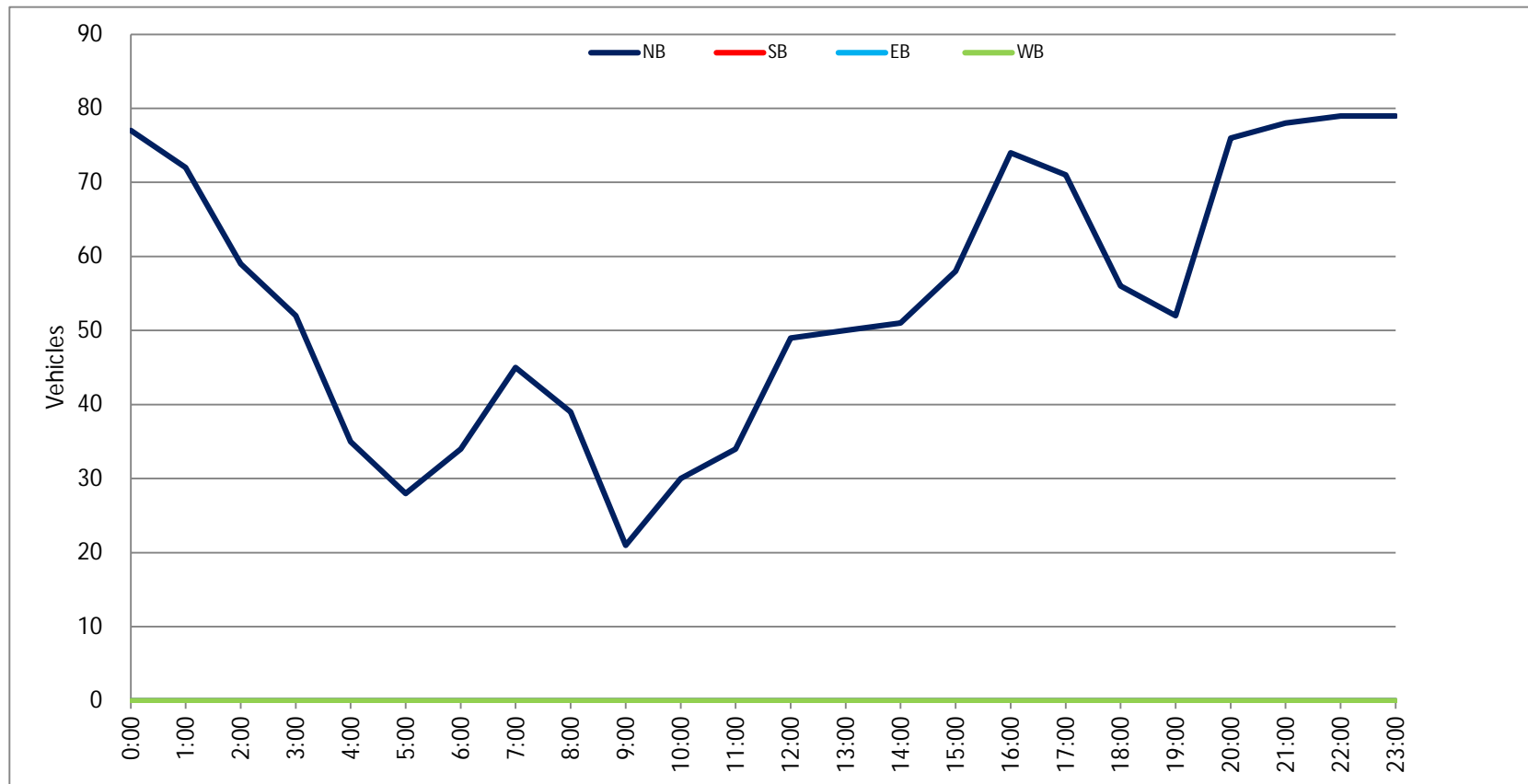


Project #: CA22_040198_003

City: Jamul

Location: 14145 Campo Rd Driveway Exit (Left Lane)

Date: 11/5/2022



ATTACHMENT B

Special Event Parking Data

1:00 PM

Parking Occupancy		
P8	78% Full	31 Spaces Open
P7	25% Full	178 Spaces Open
P6	94% Full	7 Spaces Open
P5	98% Full	3 Spaces Open
P4	86% Full	25 Spaces Open
P3	21% Full	192 Spaces Open
P2	20% Full	195 Spaces Open
P1	77% Full	57 Spaces Open
Total	57% Full	688 Spaces Open

3:00 PM

Parking Occupancy		
P8	87% Full	19 Spaces Open
P7	42% Full	139 Spaces Open
P6	91% Full	11 Spaces Open
P5	96% Full	7 Spaces Open
P4	85% Full	26 Spaces Open
P3	34% Full	160 Spaces Open
P2	30% Full	170 Spaces Open
P1	77% Full	57 Spaces Open
Total	63% Full	589 Spaces Open

5:00 PM

Parking Occupancy		
P8	91% Full	13 Spaces Open
P7	57% Full	103 Spaces Open
P6	93% Full	8 Spaces Open
P5	98% Full	3 Spaces Open
P4	86% Full	25 Spaces Open
P3	47% Full	128 Spaces Open
P2	37% Full	152 Spaces Open
P1	72% Full	68 Spaces Open
Total	69% Full	500 Spaces Open

6:00 PM

Parking Occupancy		
P8	92% Full	12 Spaces Open
P7	61% Full	93 Spaces Open
P6	95% Full	6 Spaces Open
P5	99% Full	2 Spaces Open
P4	96% Full	7 Spaces Open
P3	52% Full	117 Spaces Open
P2	42% Full	142 Spaces Open
P1	80% Full	48 Spaces Open
Total	73% Full	427 Spaces Open

Appendix P

Evacuation Traffic Analysis

MEMORANDUM

To: Ryan Sawyer, AICP
Project Director
Acorn Environmental

From: Leonardo Espelet, P.E., T.E.
Caralee Jaeckels, P.E.
Kimley-Horn and Associates, Inc.

Date: December 3, 2022

Subject: Jamul Casino Hotel and Event Center Environmental Impact Report (TEIR) –
Evacuation Traffic Analysis

This memorandum has been prepared to assist with the preparation of the Jamul Indian Village Tribal Environmental Impact Report (TEIR) in support of the proposed hotel and event center at the existing Jamul Casino. This memorandum includes a summary of the preliminary evacuation analysis for the Casino and surrounding area during a wildfire.

Evacuation Area Boundary

As a conservative approach, and for the purpose of these calculation, the boundaries of the area to be evacuated include the Jamul Casino and the surrounding area shown in **Figure 1**. The local population within this selected area according to the U.S Census American Community Survey, 5-Year-Estimates

Figure 1. Evacuation Area Boundary



(2020) was 9,679. It should be noted that the exact evacuation area will be determined by others during the actual event, and the area could vary greatly from what is shown.

Evacuation Scenario and Assumptions

The Santa Ana-driven wildfire is the most likely scenario. In this scenario, a wildfire would start east of Jamul and quickly spread west due to strong, dry westbound winds. Four versions of this scenario were considered:

Existing conditions:

- Evacuation of guests and staff at the existing casino and local population at the same time,
- Evacuation of local population only,
- Evacuation of guests and staff at the existing casino only.

Proposed Project conditions:

- Evacuation of guests and staff at the existing casino plus the Proposed Hotel and Event Center Project (Proposed Project),
- Evacuation of the local population, existing casino, plus the Proposed Project.

The Tables below summarize the quantitative and qualitative assumptions made for this study.

Quantitative Assumptions

Local evacuation area population	9,679
Number of parking spaces at existing Jamul Casino	1,792
Increase in parking spaces from the Proposed Project	255
Travel Lane Capacity	1,000 veh/ln/hr
Percentage of population that will shelter-in-place or stay and defend	15%
Percentage of evacuees that will evacuate during peak of threat	75%
Peak of threat time frame (hours)	4
Percentage of vehicles that will use SR-94	80%
Vehicle Occupancy Rate During Evacuation*	1.5

*Anton Beloglazov, Mahathir Almashor, Ermyas Abebe, Jan Richter, Kent Charles Barton Steer, *Simulation Modeling Practice and Theory: Simulation of wildfire evacuation with dynamic factors and model composition* (Elsevier B.V., 2015) 148.

Qualitative Assumptions

All residents receive the evacuation warning when it was sent.
Casino parking is at full capacity.
The fire will not change speed or direction throughout the scenario.
Vehicles that experience a collision or break-down will immediately exit the travel way and will not impact lane capacity.
SR-94 will be clear of all traffic during the evacuation scenario except for traffic demand generated by the evacuation of the community.

The capacity assumptions of the travel lanes during the evacuation scenario is assumed to be 1,000 veh/ln/hr. Under normal conditions, highway lane capacity is generally about 1,700 vehicles/lane/hour (*Highway Capacity Manual, Chapter 15*). However, emergency responders have observed that throughput is significantly reduced during emergency evacuations. For this analysis, the assumed highway lane vehicle throughput is reduced to 1,000 vehicles/lane/hour to account for greater percentages of trailers and recreational vehicles that travel slower, stalled vehicles, and unpredictable driver behavior. This value was derived from observed flow rates on highways undergoing hurricane evacuations.

Analysis and Results

Based on the quantitative and qualitative assumptions above, the total demand of local resident vehicles estimated to use SR-94 as an evacuation route during the peak wildfire threat was estimated to be 4,114 vehicles. The total demand of vehicles evacuating from the casino (equal to the number of parking spaces on site) was added to the local resident vehicle demand calculation to obtain the total demand for evacuating the casino, with the proposed expansion at the same time as the local population.

Based on the calculated demand and assumed capacity of SR-94 during an evacuation, the time to evacuate the existing casino at maximum capacity alone was estimated to take 1.8 hrs, while the time to evacuate the casino with the surrounding area was estimated to take approximately 6 hours. The incremental increase in time from the addition of the Proposed Project to evacuate the existing casino at maximum capacity alone was estimated to be 18 minutes (total of 2.1 hours), and to evacuate the surrounding community was estimated to be 4.1 hours. The table below summarizes the results for each version of the evacuation scenario. The total evacuation time for the Casino with the proposed expansion and the local community at the same time was estimated as 6.2 hours.

The time to evacuate was calculated using the following equation:

$$Time (hr) = \frac{Total\ demand\ (veh)}{Capacity\ (\frac{veh}{hr})}$$

Scenario	Total Demand (veh)		Capacity (veh/hr)	Estimated Time to Evacuate (hr)
Evacuation of existing casino only	Out-Bound (WB)	1,792	1,000	1.8
Evacuation of existing casino + local population	Out-Bound (WB)	5,906	1,000	5.9
Evacuation of local population only	Out-Bound (WB)	4,114	1,000	4.1
Evacuation of existing casino with proposed expansion only	Out-Bound (WB)	2,047	1,000	2.1
Evacuation of existing casino with proposed expansion + local population	Out-Bound (WB)	6,121	1,000	6.2