

Appendix A

Special Status Species and Habitat Discussion

APPENDIX A

SPECIAL STATUS SPECIES AND HABITAT DISCUSSION

NATURAL COMMUNITIES

To classify the natural communities, or vegetation types within the proposed Project area, the California Department of Fish and Wildlife (CDFW) and the California Native Plant Society (CNPS) standard classification system for floristically describing vegetation communities statewide were used; further translating to the National Vegetation Classification Standard. The CDFW and CNPS system has been compiled in *A Manual for California Vegetation (MCV)*, 2nd Edition (Sawyer et al. 2009)¹, and has been accepted and adopted by state and federal agencies. The MCV classifies natural communities in a hierarchy, with the most granular level being the Association, and associations are then grouped into alliances, alliances into Groups continuing upward ultimately to a Formation Class (CDFW 2024)². The MCV classifications replace lists of vegetation types developed for the California Natural Diversity Database (CNDDDB) and classifications relate specifically to wildlife habitats by identifying unique characteristics; thus, distinguishing locales for threatened and endangered wildlife species.

¹ Sawyer, J.O., T. Keeler-Wolf, and J.M. Evens. 2009. *A Manual of California Vegetation*, Second Edition. California Native Plant Society, Sacramento. 1300 pp. Available at: <https://vegetation.cnps.org/>. Accessed June 2024.

² CDFW. 2024. California Department of Fish and Wildlife. Natural Communities. Available at: <https://wildlife.ca.gov/Data/VegCAMP/Natural-Communities>. Accessed June 2024.

Disturbed Land / Ruderal and Non-Native Annual Grassland Herbaceous Alliance

Reconnaissance-level surveys conducted on April 19 and October 6, 2022 revealed the disturbed land/ruderal and non-native annual grassland vegetation community to be the most dominant within the proposed Project area, especially below the ordinary high water mark (OHWM) of Lake Oroville where the majority of the proposed Project is located. Within the proposed Project area, disturbed lands/ruderal land cover types include disturbed lands, existing roads/trails both paved and dirt, and existing/developed recreational facilities and parking lots. This landcover type is not classified as a natural community; however, it is common within the vicinity of most of the maintenance locations within the Project boundary.

Within the lake fluctuation zone below the OHWM and the existing Enterprise Boat Ramp, vegetation consists mainly of ruderal species, including many annual forbs and grasses. The most dominant species are sky lupine (*Lupinus nanus*) and several clover species (*Acmispon* sp. and *Trifolium* sp.). There are also some scattered black willows (*Salix goodingii*) above 800 feet (244 meters) above mean sea level (amsl).

Quercus wislizeni - Quercus chrysolepis (shrub) Shrubland Alliance Canyon live oak - Interior live oak chaparral

In addition to a disturbed land/ruderal landcover type, the upland area also contains areas that may be classified under the *Quercus wislizeni* – *Quercus chrysolepis* (shrub) Shrubland Alliance. This natural community is generally found at elevations ranging from approximately 984 to 7,217 feet (300 to 2,200 meters) on areas with variable topography with steep slopes possessing alluvial soils or bedrock (CNPS 2020)³. In contrast with the lower regions of the proposed Project area, upland areas are within the boundary of the 2020 North Complex fire and contain mainly of annual forbs, shrub species, and trees. The most dominant species present are oak species (*Quercus* sp.), toyon (*Heteromeles arbutifolia*). Tree species include madrone (*Arbutus menziesii*), ponderosa pine (*Pinus ponderosa*), California black oak (*Quercus kelloggii*), and interior live oak (*Quercus wislizeni* var. *wislizeni*).

Hydrological Features

The proposed Project area is located almost entirely below the OHWM of Lake Oroville. Access to the site will be along the existing Enterprise Road, boat ramp, and parking lot, which consist of paved areas. Staging will occur in an approximate one-acre corner of the existing paved boat ramp parking lot. Access will also occur immediately adjacent to the existing boat ramp and along the proposed boat ramp extension and proposed parking lot. These areas are a mix of bare dirt and rock and areas with limited vegetation (approximately 40%), including a mix of both native and non-native annual species. Construction work is scheduled for periods when lake levels are below 750 feet (229 meters) amsl in the proposed Project area.

³ CNPS. 2020. A Manual of California Vegetation Online. *Quercus wislizeni* - *Quercus chrysolepis* (shrub) Shrubland Alliance. Available at: <https://vegetation.cnps.org/alliance/581>. Accessed June 2024.

Vegetation below Lake Oroville's OHWM, where present and visible, was found to be a mix of both native and non-native invasive species including cheatgrass (*Bromus tectorum*), rat's-tail fescue (*Festuca myuros*), and common stork's-bill (*Erodium cicutarium*). While these species are not wetland indicators, the site would be considered waters of the United States and waters of the State given it is below the OHWM of Lake Oroville.

Wildlife Habitat

The natural communities and habitats present within the proposed Project area and immediate vicinity include limited suitable habitat and little to no habitat considered to be "high value" including habitats such as riparian and wetland habitats that have the potential to support a variety wildlife including birds, mammals, reptiles, amphibians, and invertebrates alike. High value habitats support wildlife species during all stages of their life cycles including breeding, feeding, nesting, and/or migration. The majority of the proposed Project area includes previously disturbed areas, which may provide lower quality habitat and may provide minimal suitable habitat for both special status vegetation and wildlife species.

Wildlife Migratory Corridors

Wildlife movement corridors have been recognized by U.S. Fish and Wildlife Service (USFWS) and CDFW as important habitats worthy of conservation. Wildlife corridors provide migration channels seasonally (i.e., between winter and summer habitats); provide non-migratory wildlife with the opportunity to move within their home range for food, cover, and reproduction; and allow for dispersal for individuals to colonize new areas (CDFW 2024⁴, USFWS 2024⁵). Due to the location of the proposed Project area being primarily beneath the OHWM of Lake Oroville, limited suitable habitat available within the proposed Project area, and temporary nature of the proposed Project construction, it is unlikely the proposed Project would 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.

Special Status Species

Study Methods

The special status species with the potential to occur within the proposed Project area were identified through desktop queries of the CDFW CNDDDB, USFWS Information for Planning and Consultation (IPaC), and CNPS lists and/or databases.

To determine whether proposed Project activities would have a substantial adverse impact on special status plant and wildlife species, a desktop query and analysis as well as reconnaissance-level biological field surveys conducted in April 2022 and October 2022. The desktop analysis was conducted prior to the reconnaissance-level biological

⁴ CDFW. 2024. California Department of Fish and Wildlife. California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California. Available at: <https://wildlife.ca.gov/conservation/planning/connectivity/CEHC>. Accessed June 2024.

⁵ USFWS. 2024. U.S. Fish and Wildlife Service. National Wildlife Refuge System. Wildlife Corridors. Available at: <https://www.fws.gov/refuges/features/wildlife-corridors.html>. Accessed June 2024.

field surveys and included areas within the proposed Project area as well as a two-mile buffer (CDFW CNDDDB and USFWS IPaC databases) or within the *Oroville Dam and Forbestown, California* U.S. Geological Survey (USGS) 7.5-minute quadrangles (CNPS database). Specially, the following resources were queried and reviewed:

- CDFW CNDDDB records of special status species within *Oroville Dam and Forbestown, California* USGS 7.5-minute quadrangles (CDFW 2024⁶).
- CDFW Biogeographic Information and Observation System Viewer Version 6.24.0501 (CDFW 2024⁷).
- California Native Plant Society Online Inventory of Rare and Endangered Plants of California for the *Oroville Dam and Forbestown, California* USGS 7.5-minute quadrangles (CNPS 2024⁸).
- U.S. Fish and Wildlife Service Information for Planning and Consultation list of federally listed species and critical habitat that may occur within two miles of the proposed Project area (USFWS 2024⁹).
- Aerial photographs (Google Earth Pro).

Endangered, threatened, rare, and/or special status species that were identified during the desktop query and analysis are compiled in Table A-1 and Table A-2 below. For the purpose of this Initial Study/Mitigated Negative Declaration (IS/MND), special status species are defined by the following parameters:

- Species listed or proposed for listing as threatened or endangered under the federal Endangered Species Act (50 CFR 17.12 for listed plants, 50 CFR 17.11 for listed animals, and various notices in the Federal Register for proposed species).
- Species that are listed or proposed for listing by California as threatened or endangered under the California Endangered Species Act (14 CCR 670.5).

⁶ CDFW. 2024. California Department of Fish and Wildlife. California Natural Diversity Database Rarefind 5 Online Database 5.3.0. Available at: <https://wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>. Accessed June 2024.

⁷ CDFW. 2024. Biogeographic Information and Observation System (BIOS) Online Viewer. Available at: <https://wildlife.ca.gov/Data/BIOS>. Accessed June 2024.

⁸ CNPS. 2024. California Native Plant Society. Rare Plant Program. Rare Plant Inventory (online edition, v9-5). Inventory of Rare and Endangered Plants for the *Oroville Dam and Forbestown, California* USGS 7.5-minute quadrangle. Available at: <https://www.rareplants.cnps.org>. Accessed June 2024.

⁹ USFWS. 2024. U.S. Fish and Wildlife Service Information for Planning and Consultation (IPaC) Trust Resource Report. USFWS Environmental Conservation Online System (ECOS). Available at: <https://ecos.fws.gov/ipac>. Accessed June 2024.

- Plants listed as rare under the California Native Plant Protection Act of 1977 (California Fish and Game Code 1900 et seq.).
- Plants considered by the CNPS to be Rank 1- a) “plants presumed extirpated in California and either rare or extinct elsewhere, or b) “rare, threatened, or endangered in California and elsewhere”.
- Plants considered by CNPS to be a Rank 2- a) Plants presumed extirpated in California, but common elsewhere, or b) “rare, threatened, or endangered in California and common elsewhere”.
- Plants considered by CNPS to be a Rank 3- “plants about which more information is needed” and cannot be yet be excluded from review.
- Plants considered by CNPS to be a Rank 4- “plants with limited distribution”.
- Plant and wildlife species that meet the definitions of “rare” or “endangered” under California Environmental Quality Act Guidelines Section 15380.
- Wildlife species designated by CDFW as Species of Special Concern (SSC), Fully Protected, or on Watch List.

Additionally, the potential for special status plant and wildlife species to occur within the proposed Project area is shown below in Table A-1 and Table A-2. The potential to occur is based on the proximity to previous occurrences as reported in the database search results, existing vegetation communities and habitats, topography and elevation, soils, surrounding land uses, and habitat suitability observed within the proposed Project area. The potential for each special status species in the table below is defined as follows:

- **None:** No suitable habitat exists within the proposed Project area and/or the proposed Project is outside the species known range. There is no potential for the species and/or habitat to occur.
- **Low:** Limited or marginal suitable habitat exists within the proposed Project area and the species is unlikely to occur.
- **Moderate:** Suitable habitat exists within the proposed Project area and the species may occur.
- **High:** The species is known to occur within the proposed Project area or ideal habitat exists within the proposed Project area and the species is likely to occur.

Species with a moderate potential or high potential to occur within the proposed Project area are further described in the impact assessment of Section 3.4 Biological Resources within this IS/MND.

Table A-1. Potentially Occurring Special Status Plant Species Within the Enterprise Recreation Area Upgrade Project Area, Butte County, California.

Species Name	Common Name	Legal Status ^{10, 11}			Geographic Distribution/ Floristic Province		Preferred Habitat ¹²	Identification Period	Potential to Occur Within the Project Area ^{13, 14}
		Federal	State, Local	CNPS	Low (feet)	High (feet)			
<i>Arctostaphylos mewukka ssp. truei</i>	True's manzanita	-	S3	4.2	1,395	4,560	Chaparral, lower montane coniferous forest.	Feb–Jul	None. No Suitable habitat in the Project area. No known occurrences from within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.
<i>Brodiaea sierrae</i>	Sierra foothills brodiaea	-	S3	4.3	165	3,215	Chaparral, Cismontane woodland, lower montane coniferous forest.	May–Aug	None. No Suitable habitat in the Project area. No known occurrences from within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.
<i>Bulbostylis capillaris</i>	Thread-leaved beakseed	-	S3	4.2	1,295	6,810	Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest.	Jun–Aug	None. No Suitable habitat in the Project area. No known occurrences from within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.

¹⁰ CDFW. 2024. State of California Natural Resources Agency. Department of Fish and Wildlife Biogeographic Data Branch. California Natural Diversity Database (CNDDDB). Special Animals List. June 2024.

¹¹ Butte County Association of Governments. 2019. Butte Regional Conservation Plan. Available at: <https://wildlife.ca.gov/Conservation/Planning/NCCP/Plans/Butte-County>. Accessed: February 2023.

¹² California Native Plant Society (CNPS). 2024. Rare Plant Program. Rare Plant Inventory (online edition, v9-5). Available at: <https://www.rareplants.cnps.org>. Accessed June 2024.

¹³ CDFW. 2024. California Department of Fish and Wildlife. California Natural Diversity Database Rarefind 5 Online Database 5.2.14. Available at: <https://wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>. Accessed June 2024.

¹⁴ CDFW. 2024. Biogeographic Information and Observation System (BIOS) Online Viewer. Available at: <https://wildlife.ca.gov/Data/BIOS>. Accessed June 2024.

CEQA Initial Study and Mitigated Negative Declaration
Oroville Facilities Enterprise Recreation Area Upgrade Project (FERC PROJECT NO. 2100)

Species Name	Common Name	Legal Status ^{10, 11}			Geographic Distribution/ Floristic Province		Preferred Habitat ¹²	Identification Period	Potential to Occur Within the Project Area ^{13, 14}
		Federal	State, Local	CNPS	Low (feet)	High (feet)			
<i>Calycadenia oppositifolia</i>	Butte County calycadenia	-	S3	4.2	295	3,100	Chaparral, cismontane woodland, lower montane coniferous forest, meadows and seeps, valley and foothill grassland.	Apr-Jul	None. No Suitable habitat in the Project area. No known occurrences from within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.
<i>Clarkia biloba ssp. brandegeeeae</i>	Brandegees clarkia	-	S4	4.2	245	3,000	Chaparral, cismontane woodland, lower montane coniferous forest.	May-Jul	None. No suitable habitat in the Project area. Multiple occurrences from 1966–2008 within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quadrangles (quads).
<i>Clarkia gracilis ssp. albicaulis</i>	White-stemmed clarkia	-	S3	1B.2	800	3,540	Sometimes serpentinite in chaparral and cismontane woodland.	May-Jul	None. No suitable habitat in the Project area. Two known occurrences from 1994 and 2003 within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.
<i>Clarkia mosquinii</i>	Mosquin's clarkia	-	S2	1B.1	605	4,890	Rocky, roadsides in cismontane woodland and lower montane coniferous forest.	May-Jul	None. No suitable habitat in the Project area. Multiple occurrences from 1967–2016 within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.

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Species Name	Common Name	Legal Status ^{10, 11}			Geographic Distribution/ Floristic Province		Preferred Habitat ¹²	Identification Period	Potential to Occur Within the Project Area ^{13, 14}
		Federal	State, Local	CNPS	Low (feet)	High (feet)			
<i>Erythranthe filicifolia</i>	Fern-leaved monkey flower	-	S2	1B.2	1,360	5,610	Chaparral, lower montane coniferous forest, meadows and seeps.	Apr–Jun	None. No suitable habitat in the Project area. No known occurrences from within the <i>Oroville Dam and Forbestown, California</i> USGS 7.5-minute quads.
<i>Erythranthe glaucescens</i>	Shield-bracted monkeyflower	-	S3	4.3	195	4,070	Chaparral, cismontane woodland, lower montane coniferous forest, Valley and foothill grassland.	Feb–Aug	None. No suitable habitat in the Project area. No known occurrences from within the <i>Oroville Dam and Forbestown, California</i> USGS 7.5-minute quads.
<i>Fissidens pauperculus</i>	Minute pocket moss	-	S2	1B.2	35	3,360	North Coast coniferous forest (damp coastal soil).	Year round	None. No Suitable habitat in the Project area. One known occurrence within the <i>Forbestown, California</i> USGS 7.5-minute quad (2003).
<i>Fritillaria eastwoodiae</i>	Butte County fritillary	-	S3	3.2	160	4,920	Chaparral, cismontane woodland, lower montane coniferous forest (openings).	Mar–Jun	None. No Suitable habitat in the Project area. Multiple occurrences from 1991–2012 within the <i>Oroville Dam and Forbestown, California</i> USGS 7.5-minute quads.
<i>Lilium humboldtii</i> ssp. <i>humboldtii</i>	Humboldt lily	-	S3	4.2	295	4,200	Chaparral, cismontane woodland, lower montane coniferous forest.	May–Aug	None. No Suitable habitat in the Project area. No known occurrences from within the <i>Oroville Dam and Forbestown, California</i> USGS 7.5-minute quads.

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Oroville Facilities Enterprise Recreation Area Upgrade Project (FERC PROJECT NO. 2100)

Species Name	Common Name	Legal Status ^{10, 11}			Geographic Distribution/ Floristic Province		Preferred Habitat ¹²	Identification Period	Potential to Occur Within the Project Area ^{13, 14}
		Federal	State, Local	CNPS	Low (feet)	High (feet)			
<i>Lupinus constancei</i>	Lassics lupine	E	CE	1B.1	4,920	6,560	Lower montane coniferous forest.	Jul	None. No Suitable habitat in the Project area. No known occurrences from within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.
<i>Microseris sylvatica</i>	Sylvan microseris	-	S4	4.2	145	4,920	Chaparral, cismontane woodland, Great Basin scrub, pinyon and juniper woodland, Valley and foothill grassland (serpentinite).	Mar–Jun	None. No Suitable habitat in the Project area. No known occurrences from within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.
<i>Perideridia bacigalupii</i>	Bacigalupi's yampah	-	-	4.2	1,475	4,120	Chaparral, lower montane coniferous forest.	Jun–Aug	None. No suitable habitat within Project area. No known occurrences from within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.
<i>Poa sierrae</i>	Sierra blue grass	-	S3	1B.3	1200	5,575	Openings in lower montane coniferous forest.	Apr–Jul	None. No Suitable habitat in the Project area. Two known occurrences from 2017 within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads.

Status Key:

- = no listing; E = endangered; T = threatened; E = endangered; CE = candidate endangered; R = rare

S1 = critically imperiled; S2 = imperiled; S3 = vulnerable; S4 = apparently secure

California Native Plant Society (CNPS Ranks):

Rank 1B.1 = CNPS Rank 1B.1: Plants rare, threatened or endangered in California and elsewhere (seriously threatened in California)

Rank 1B.2 = CNPS Rank 1B.2: Plants rare, threatened, or endangered in California and elsewhere (moderately threatened in California)
 Rank 3.2 = Plants about which more information is needed (moderately threatened in California)
 Rank 4.2 = Plants of limited distribution (moderately threatened in California)
 Rank 4.3 = Plants of limited distribution (not very threatened in California)

Table A-2. Potentially Occurring Special Status Wildlife Species Within the Project Area of the Enterprise Recreation Area Upgrade Project, Butte County, California.

Common Name	Scientific Name	Federal, State, Local	Habitat/Range/ Life History	Observed Within the Project Boundary During April 2022 Surveys	Potential to Occur Within the Project Area ^{15, 16}
Invertebrates					
Monarch butterfly	<i>Danaus plexippus</i>	FC	Overwinter in coastal California, breed from the coast east to the Rocky Mountains. Reproduction is completely dependent on the presence of their larval host plants, primarily milkweeds in the genus <i>Asclepias</i> . ¹⁷	No	None. No suitable habitat within the Project area. No known occurrences within two miles of the Project area.
Amphibians and Reptiles					
California red-legged frog	<i>Rana draytonii</i>	FT, SSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Coastal	No	None. No suitable habitat within the Project area. No known occurrences within two miles of the Project area.

¹⁵ CDFW. 2024. California Department of Fish and Wildlife. California Natural Diversity Database Rarefind 5 Online Database 5.3.0. Available at: <https://wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>. Accessed June 2024.

¹⁶ CDFW. 2024. Biogeographic Information and Observation System (BIOS) Online Viewer. Available at: <https://wildlife.ca.gov/Data/BIOS>. Accessed June 2024.

¹⁷ CEC. 2009. Commission for Environmental Cooperation. Monarch Butterfly Monitoring in North America: Overview of Initiative and Protocols. Available at: <http://www.cec.org/files/documents/publications/2378-monarch-butterfly-monitoring-in-north-america-en.pdf>. Accessed June 2024.

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Common Name	Scientific Name	Federal, State, Local	Habitat/Range/ Life History	Observed Within the Project Boundary During April 2022 Surveys	Potential to Occur Within the Project Area ^{15, 16}
			Range of California, foothill range of the Sierra Nevada. ¹⁸		
Foothill yellow-legged frog (Feather River Clade)	<i>Rana boylei</i>	ST, BRCP	Frequents rocky streams and rivers with rocky substrate and open, sunny banks, in forests, chaparral, and woodlands. Sometimes found in isolated pools, vegetated backwaters, and deep, shaded, spring-fed pools. Coastal Range of California, foothill range of Sierra Nevada mountains, 6,365 feet (1,940 meters). ¹⁹	No	None. No suitable habitat within the Project area. No known occurrences within two miles of the Project area.
Northwestern pond turtle	<i>Actinemys marmorata</i>	PT, SSC	Found in perennial wetlands, ponds, creeks, and slow-moving sections of rivers with overhanging vegetation primarily at elevations up to 5,000 feet (1,524 meters). Prefers suitable basking sites, such as logs and rocks in full sun, above the waterline.	No	None. No suitable habitat within the Project area. No known occurrences within two miles of the Project area.
Birds					
Bald eagle	<i>Haliaeetus leucocephalus</i>	FD, BAGEPA,	Nests and winters within Northern California.	Yes	None. No suitable nesting habitat in the Project area. Two known

¹⁸ Nafis, G. 2024. California Herps - A Guide to the Amphibians and Reptiles of California. Available at: <http://www.californiaherps.com>. Accessed June 2024.

¹⁹ USFWS. 2024. U.S. Fish and Wildlife Service. Foothill Yellow-legged Frog Species Account. Available at: <https://www.fws.gov/species/foothill-yellow-legged-frog-rana-boylei>. Accessed June 2024.

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Common Name	Scientific Name	Federal, State, Local	Habitat/Range/ Life History	Observed Within the Project Boundary During April 2022 Surveys	Potential to Occur Within the Project Area ^{15, 16}
		SE, FP, BCC, BRCP	Foraging areas include rivers, reservoirs, lakes, estuaries, and coastal marine ecosystems. Nests in large, old-growth, or dominant trees near foraging habitat. ²⁰		nesting territories within the <i>Oroville Dam</i> and <i>Forbestown, California</i> USGS 7.5-minute quads (1999 and 2001). Known bald eagle territories in the region are regularly monitored by DWR and protective measures are implemented per the Oroville Facilities Biological Opinion and Bald Eagle Management Plans.
California spotted owl	<i>Strix occidentalis</i>	PT, SSC	Multi-layered forest habitat with high canopy closure with a mixture of tree sizes and densities, including large diameter old growth trees for nesting and roosting. Found in elevations up to approximately 8,500 feet (2,591 meters).	No	None. No suitable habitat in the Project area. According to the CNDDDB, there are two observations of California spotted owl approximately 1.5 miles to the southeast along Lumpkin Road from 2011 and 2012. Both observations were of single owls non-breeding owls.
Nesting raptors and other migratory birds.	N/A	MBTA, FGC	Found nesting in trees, shrubs, underground burrows, cavities, manmade structures, and riparian vegetation.	Yes	High. Suitable habitat in Project area.
Mammals					

Status Key: CDFW = California Department of Fish and Wildlife; USFWS = U.S. Fish and Wildlife
 - = no listing; FC = federal candidate; FE = federally threatened; FE = federally endangered; SE = state endangered; SSC = state species of special concern; ST = state threatened; WL = state watch list; FD = federally delisted; FP = state fully protected; BAGEPA = Bald and Golden Eagle Protection Act; BCC = USFWS bird of conservation concern; BRCP = Butte Regional Conservation Plan Covered Species; MBTA = Migratory Bird Treaty Act; BCC = USFWS bird of conservation concern; FGC = California Fish and Game Code

²⁰ USFWS. 2024. U.S. Fish and Wildlife Service. Bald Eagle Species Account. Available at: <https://www.fws.gov/species/bald-eagle-haliaeetus-leucocephalus>. Accessed June 2024.

Appendix B

CalEEMod Air Quality & Energy Modeling Data

Enterprise CEQA - Butte County AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Enterprise CEQA
Butte County AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	10.85	1000sqft	0.25	10,850.00	0
Other Non-Asphalt Surfaces	3.00	1000sqft	0.07	3,000.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0
User Defined Recreational	4.00	User Defined Unit	0.11	4,650.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Construction Phase - Construction anticipated to take 5 months

Off-road Equipment - construction equipment list provided in Table 2.3-1. Concrete trucks accounted for in building construction vendor truck trips.

Off-road Equipment - construction equipment list provided in Table 2.3-1. Concrete trucks accounted for in building construction vendor truck trips.

Off-road Equipment - construction equipment list provided in Table 2.3-1. Concrete trucks accounted for in building construction vendor truck trips.

Off-road Equipment -

Vehicle Trips - it was conservatively assumed that maintenance of the picnic and trail would take place once a week all year while boat ramp maintenance would occur daily for the year. Therefore, 417 trips per year and 1.14 trips/day.0.105

Enterprise CEQA - Butte County AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	50.00
tblConstructionPhase	NumDays	10.00	8.00
tblConstructionPhase	NumDays	2.00	50.00
tblGrading	AcresOfGrading	50.00	2.00
tblGrading	MaterialExported	0.00	23,000.00
tblLandUse	LandUseSquareFeet	0.00	4,650.00
tblLandUse	LotAcreage	0.00	0.11
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.11
tblVehicleTrips	SU_TR	0.00	0.11
tblVehicleTrips	WD_TR	0.00	0.11

2.0 Emissions Summary

Enterprise CEQA - Butte County AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	1.1861	1.1861
2	9-1-2023	9-30-2023	0.3247	0.3247
		Highest	1.1861	1.1861

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0231	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.1684	0.1684	3.0000e-005	0.0000	0.1701
Mobile	9.5000e-004	1.7200e-003	9.0100e-003	2.0000e-005	1.6100e-003	2.0000e-005	1.6300e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.5687	1.5687	1.0000e-004	9.0000e-005	1.5981
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0240	1.7200e-003	9.2900e-003	2.0000e-005	1.6100e-003	2.0000e-005	1.6300e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.7376	1.7376	1.3000e-004	9.0000e-005	1.7688

Enterprise CEQA - Butte County AQMD Air District, Annual

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	0.0231	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.1684	0.1684	3.0000e-005	0.0000	0.1701
Mobile	9.5000e-004	1.7200e-003	9.0100e-003	2.0000e-005	1.6100e-003	2.0000e-005	1.6300e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.5687	1.5687	1.0000e-004	9.0000e-005	1.5981
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0240	1.7200e-003	9.2900e-003	2.0000e-005	1.6100e-003	2.0000e-005	1.6300e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.7376	1.7376	1.3000e-004	9.0000e-005	1.7688

	ROG	NOx	CO	SO2	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	6/1/2023	6/12/2023	5	8	
2	Grading	Grading	6/13/2023	8/21/2023	5	50	
3	Building Construction	Building Construction	8/22/2023	10/30/2023	5	50	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2

Acres of Paving: 0.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Graders	1	8.00	187	0.41
Demolition	Off-Highway Trucks	2	8.00	402	0.38
Demolition	Other Construction Equipment	1	8.00	172	0.42
Demolition	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Trucks	2	8.00	402	0.38
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Graders	1	8.00	187	0.41
Building Construction	Off-Highway Trucks	2	8.00	402	0.38

Enterprise CEQA - Butte County AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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	8	20.00	0.00	0.00	11.10	10.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,875.00	11.10	10.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	10.00	4.00	0.00	11.10	10.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					
Off-Road	0.0117	0.1082	0.0909	2.3000e-004	4.6000e-003	4.6000e-003		4.2300e-003	4.2300e-003		0.0000	20.6174	20.6174	6.6700e-003	0.0000	20.7841
Total	0.0117	0.1082	0.0909	2.3000e-004	4.6000e-003	4.6000e-003		4.2300e-003	4.2300e-003		0.0000	20.6174	20.6174	6.6700e-003	0.0000	20.7841

Enterprise CEQA - Butte County AQMD Air District, Annual

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 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	3.2000e-004	2.3000e-004	2.5100e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5380	0.5380	2.0000e-005	2.0000e-005	0.5440
Total	3.2000e-004	2.3000e-004	2.5100e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5380	0.5380	2.0000e-005	2.0000e-005	0.5440

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	0.0117	0.1082	0.0909	2.3000e-004		4.6000e-003	4.6000e-003		4.2300e-003	4.2300e-003	0.0000	20.6173	20.6173	6.6700e-003	0.0000	20.7840
Total	0.0117	0.1082	0.0909	2.3000e-004		4.6000e-003	4.6000e-003		4.2300e-003	4.2300e-003	0.0000	20.6173	20.6173	6.6700e-003	0.0000	20.7840

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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 - 2023

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	3.2000e-004	2.3000e-004	2.5100e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5380	0.5380	2.0000e-005	2.0000e-005	0.5440
Total	3.2000e-004	2.3000e-004	2.5100e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5380	0.5380	2.0000e-005	2.0000e-005	0.5440

3.3 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					0.1529	0.0000	0.1529	0.0831	0.0000	0.0831	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0730	0.6762	0.5680	1.4700e-003		0.0287	0.0287		0.0264	0.0264	0.0000	128.8584	128.8584	0.0417	0.0000	129.9003
Total	0.0730	0.6762	0.5680	1.4700e-003	0.1529	0.0287	0.1816	0.0831	0.0264	0.1095	0.0000	128.8584	128.8584	0.0417	0.0000	129.9003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

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	3.5600e-003	0.2034	0.0414	8.6000e-004	0.0243	1.8500e-003	0.0261	6.6800e-003	1.7700e-003	8.4500e-003	0.0000	82.9973	82.9973	1.5000e-004	0.0131	86.8885
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	1.9800e-003	1.4300e-003	0.0157	4.0000e-005	4.0400e-003	2.0000e-005	4.0700e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.3627	3.3627	1.2000e-004	1.1000e-004	3.3997
Total	5.5400e-003	0.2048	0.0571	9.0000e-004	0.0283	1.8700e-003	0.0302	7.7600e-003	1.7900e-003	9.5500e-003	0.0000	86.3600	86.3600	2.7000e-004	0.0132	90.2882

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					0.1529	0.0000	0.1529	0.0831	0.0000	0.0831	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0730	0.6762	0.5680	1.4700e-003		0.0287	0.0287		0.0264	0.0264	0.0000	128.8583	128.8583	0.0417	0.0000	129.9002
Total	0.0730	0.6762	0.5680	1.4700e-003	0.1529	0.0287	0.1816	0.0831	0.0264	0.1095	0.0000	128.8583	128.8583	0.0417	0.0000	129.9002

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

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	3.5600e-003	0.2034	0.0414	8.6000e-004	0.0243	1.8500e-003	0.0261	6.6800e-003	1.7700e-003	8.4500e-003	0.0000	82.9973	82.9973	1.5000e-004	0.0131	86.8885
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	1.9800e-003	1.4300e-003	0.0157	4.0000e-005	4.0400e-003	2.0000e-005	4.0700e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.3627	3.3627	1.2000e-004	1.1000e-004	3.3997
Total	5.5400e-003	0.2048	0.0571	9.0000e-004	0.0283	1.8700e-003	0.0302	7.7600e-003	1.7900e-003	9.5500e-003	0.0000	86.3600	86.3600	2.7000e-004	0.0132	90.2882

3.4 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	0.0730	0.6762	0.5680	1.4700e-003		0.0287	0.0287		0.0264	0.0264	0.0000	128.8584	128.8584	0.0417	0.0000	129.9003
Total	0.0730	0.6762	0.5680	1.4700e-003		0.0287	0.0287		0.0264	0.0264	0.0000	128.8584	128.8584	0.0417	0.0000	129.9003

Enterprise CEQA - Butte County AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	6.9200e-003	1.7800e-003	3.0000e-005	9.4000e-004	5.0000e-005	9.9000e-004	2.7000e-004	5.0000e-005	3.2000e-004	0.0000	2.7821	2.7821	1.0000e-005	4.1000e-004	2.9055
Worker	9.9000e-004	7.2000e-004	7.8500e-003	2.0000e-005	2.0200e-003	1.0000e-005	2.0300e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.6814	1.6814	6.0000e-005	6.0000e-005	1.6998
Total	1.1600e-003	7.6400e-003	9.6300e-003	5.0000e-005	2.9600e-003	6.0000e-005	3.0200e-003	8.1000e-004	6.0000e-005	8.7000e-004	0.0000	4.4634	4.4634	7.0000e-005	4.7000e-004	4.6053

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	0.0730	0.6762	0.5680	1.4700e-003		0.0287	0.0287		0.0264	0.0264	0.0000	128.8583	128.8583	0.0417	0.0000	129.9002
Total	0.0730	0.6762	0.5680	1.4700e-003		0.0287	0.0287		0.0264	0.0264	0.0000	128.8583	128.8583	0.0417	0.0000	129.9002

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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 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	6.9200e-003	1.7800e-003	3.0000e-005	9.4000e-004	5.0000e-005	9.9000e-004	2.7000e-004	5.0000e-005	3.2000e-004	0.0000	2.7821	2.7821	1.0000e-005	4.1000e-004	2.9055
Worker	9.9000e-004	7.2000e-004	7.8500e-003	2.0000e-005	2.0200e-003	1.0000e-005	2.0300e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.6814	1.6814	6.0000e-005	6.0000e-005	1.6998
Total	1.1600e-003	7.6400e-003	9.6300e-003	5.0000e-005	2.9600e-003	6.0000e-005	3.0200e-003	8.1000e-004	6.0000e-005	8.7000e-004	0.0000	4.4634	4.4634	7.0000e-005	4.7000e-004	4.6053

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Enterprise CEQA - Butte County AQMD Air District, Annual

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	9.5000e-004	1.7200e-003	9.0100e-003	2.0000e-005	1.6100e-003	2.0000e-005	1.6300e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.5687	1.5687	1.0000e-004	9.0000e-005	1.5981
Unmitigated	9.5000e-004	1.7200e-003	9.0100e-003	2.0000e-005	1.6100e-003	2.0000e-005	1.6300e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.5687	1.5687	1.0000e-004	9.0000e-005	1.5981

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	1.14	1.14	1.14	4,354	4,354
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
Total	1.14	1.14	1.14	4,354	4,354

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
Other Asphalt Surfaces	10.50	10.50	10.50	100.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	10.50	10.50	10.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.50	10.50	10.50	0.00	0.00	0.00	0	0	0
User Defined Recreational	10.50	10.50	10.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Enterprise CEQA - Butte County AQMD Air District, Annual

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

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1820	0.1684	3.0000e-005	0.0000	0.1701
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.1684	3.0000e-005	0.0000	0.1701

Enterprise CEQA - Butte County AQMD Air District, Annual

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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1820	0.1684	3.0000e-005	0.0000	0.1701
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.1684	3.0000e-005	0.0000	0.1701

6.0 Area Detail

6.1 Mitigation Measures Area

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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	0.0231	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Unmitigated	0.0231	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004

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	3.6300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Total	0.0231	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004

Enterprise CEQA - Butte County AQMD Air District, 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	3.6300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Total	0.0231	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Enterprise CEQA - Butte County AQMD Air District, Annual

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	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Enterprise CEQA - Butte County AQMD Air District, 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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Enterprise CEQA - Butte County AQMD Air District, Annual

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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number
----------------	--------

11.0 Vegetation

Enterprise CEQA - Butte County AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Enterprise CEQA
Butte County AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	10.85	1000sqft	0.25	10,850.00	0
Other Non-Asphalt Surfaces	3.00	1000sqft	0.07	3,000.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0
User Defined Recreational	4.00	User Defined Unit	0.11	4,650.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Construction Phase - Construction anticipated to take 5 months

Off-road Equipment - construction equipment list provided in Table 2.3-1. Concrete trucks accounted for in building construction vendor truck trips.

Off-road Equipment - construction equipment list provided in Table 2.3-1. Concrete trucks accounted for in building construction vendor truck trips.

Off-road Equipment - construction equipment list provided in Table 2.3-1. Concrete trucks accounted for in building construction vendor truck trips.

Off-road Equipment -

Vehicle Trips - it was conservatively assumed that maintenance of the picnic and trail would take place once a week all year while boat ramp maintenance would occur daily for the year. Therefore, 417 trips per year and 1.14 trips/day.0.105

Enterprise CEQA - Butte County AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	50.00
tblConstructionPhase	NumDays	10.00	8.00
tblConstructionPhase	NumDays	2.00	50.00
tblGrading	AcresOfGrading	50.00	2.00
tblGrading	MaterialExported	0.00	23,000.00
tblLandUse	LandUseSquareFeet	0.00	4,650.00
tblLandUse	LotAcreage	0.00	0.11
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.11
tblVehicleTrips	SU_TR	0.00	0.11
tblVehicleTrips	WD_TR	0.00	0.11

2.0 Emissions Summary

Enterprise CEQA - Butte County AQMD Air District, Summer

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	lb/day										lb/day					
Area	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	6.3400e-003	8.7700e-003	0.0547	1.0000e-004	9.2100e-003	1.0000e-004	9.3200e-003	2.4600e-003	1.0000e-004	2.5600e-003		10.1855	10.1855	6.0000e-004	5.3000e-004	10.3573
Total	0.1328	8.8000e-003	0.0579	1.0000e-004	9.2100e-003	1.1000e-004	9.3300e-003	2.4600e-003	1.1000e-004	2.5700e-003		10.1923	10.1923	6.2000e-004	5.3000e-004	10.3645

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	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	6.3400e-003	8.7700e-003	0.0547	1.0000e-004	9.2100e-003	1.0000e-004	9.3200e-003	2.4600e-003	1.0000e-004	2.5600e-003		10.1855	10.1855	6.0000e-004	5.3000e-004	10.3573
Total	0.1328	8.8000e-003	0.0579	1.0000e-004	9.2100e-003	1.1000e-004	9.3300e-003	2.4600e-003	1.1000e-004	2.5700e-003		10.1923	10.1923	6.2000e-004	5.3000e-004	10.3645

Enterprise CEQA - Butte County AQMD Air District, 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	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	6/1/2023	6/12/2023	5	8	
2	Grading	Grading	6/13/2023	8/21/2023	5	50	
3	Building Construction	Building Construction	8/22/2023	10/30/2023	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2

Acres of Paving: 0.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Graders	1	8.00	187	0.41
Demolition	Off-Highway Trucks	2	8.00	402	0.38
Demolition	Other Construction Equipment	1	8.00	172	0.42
Demolition	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Enterprise CEQA - Butte County AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Trucks	2	8.00	402	0.38
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Graders	1	8.00	187	0.41
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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	8	20.00	0.00	0.00	11.10	10.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,875.00	11.10	10.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	10.00	4.00	0.00	11.10	10.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Enterprise CEQA - Butte County AQMD Air District, 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					
Off-Road	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.684 3	5,681.684 3	1.8376		5,727.623 6
Total	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.684 3	5,681.684 3	1.8376		5,727.623 6

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	0.0953	0.0525	0.7505	1.6100e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		163.1769	163.1769	5.3600e-003	4.7300e-003	164.7214
Total	0.0953	0.0525	0.7505	1.6100e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		163.1769	163.1769	5.3600e-003	4.7300e-003	164.7214

Enterprise CEQA - Butte County AQMD Air District, 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					
Off-Road	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.6843	5,681.6843	1.8376		5,727.6236
Total	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.6843	5,681.6843	1.8376		5,727.6236

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	0.0953	0.0525	0.7505	1.6100e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		163.1769	163.1769	5.3600e-003	4.7300e-003	164.7214
Total	0.0953	0.0525	0.7505	1.6100e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		163.1769	163.1769	5.3600e-003	4.7300e-003	164.7214

Enterprise CEQA - Butte County AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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					6.1165	0.0000	6.1165	3.3227	0.0000	3.3227			0.0000			0.0000
Off-Road	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.684 3	5,681.684 3	1.8376		5,727.623 6
Total	2.9180	27.0482	22.7199	0.0587	6.1165	1.1489	7.2654	3.3227	1.0570	4.3797		5,681.684 3	5,681.684 3	1.8376		5,727.623 6

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	0.1469	7.6920	1.6429	0.0346	1.0078	0.0738	1.0816	0.2764	0.0706	0.3470		3,657.427 1	3,657.427 1	6.8400e-003	0.5749	3,828.905 6
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	0.0953	0.0525	0.7505	1.6100e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		163.1769	163.1769	5.3600e-003	4.7300e-003	164.7214
Total	0.2422	7.7445	2.3934	0.0362	1.1767	0.0747	1.2514	0.3212	0.0715	0.3927		3,820.604 1	3,820.604 1	0.0122	0.5796	3,993.627 0

Enterprise CEQA - Butte County AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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					6.1165	0.0000	6.1165	3.3227	0.0000	3.3227			0.0000			0.0000
Off-Road	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.684 3	5,681.684 3	1.8376		5,727.623 6
Total	2.9180	27.0482	22.7199	0.0587	6.1165	1.1489	7.2654	3.3227	1.0570	4.3797	0.0000	5,681.684 3	5,681.684 3	1.8376		5,727.623 6

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	0.1469	7.6920	1.6429	0.0346	1.0078	0.0738	1.0816	0.2764	0.0706	0.3470		3,657.427 1	3,657.427 1	6.8400e-003	0.5749	3,828.905 6
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	0.0953	0.0525	0.7505	1.6100e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		163.1769	163.1769	5.3600e-003	4.7300e-003	164.7214
Total	0.2422	7.7445	2.3934	0.0362	1.1767	0.0747	1.2514	0.3212	0.0715	0.3927		3,820.604 1	3,820.604 1	0.0122	0.5796	3,993.627 0

Enterprise CEQA - Butte County AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.684 3	5,681.684 3	1.8376		5,727.623 6
Total	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.684 3	5,681.684 3	1.8376		5,727.623 6

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	7.1300e-003	0.2621	0.0703	1.1600e-003	0.0390	1.9300e-003	0.0409	0.0112	1.8400e-003	0.0131		122.5961	122.5961	3.7000e-004	0.0182	128.0287
Worker	0.0476	0.0262	0.3753	8.1000e-004	0.0844	4.9000e-004	0.0849	0.0224	4.5000e-004	0.0229		81.5885	81.5885	2.6800e-003	2.3700e-003	82.3607
Total	0.0548	0.2883	0.4455	1.9700e-003	0.1234	2.4200e-003	0.1258	0.0336	2.2900e-003	0.0359		204.1845	204.1845	3.0500e-003	0.0206	210.3894

Enterprise CEQA - Butte County AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.6843	5,681.6843	1.8376		5,727.6236
Total	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.6843	5,681.6843	1.8376		5,727.6236

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	7.1300e-003	0.2621	0.0703	1.1600e-003	0.0390	1.9300e-003	0.0409	0.0112	1.8400e-003	0.0131		122.5961	122.5961	3.7000e-004	0.0182	128.0287
Worker	0.0476	0.0262	0.3753	8.1000e-004	0.0844	4.9000e-004	0.0849	0.0224	4.5000e-004	0.0229		81.5885	81.5885	2.6800e-003	2.3700e-003	82.3607
Total	0.0548	0.2883	0.4455	1.9700e-003	0.1234	2.4200e-003	0.1258	0.0336	2.2900e-003	0.0359		204.1845	204.1845	3.0500e-003	0.0206	210.3894

4.0 Operational Detail - Mobile

Enterprise CEQA - Butte County AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.3400e-003	8.7700e-003	0.0547	1.0000e-004	9.2100e-003	1.0000e-004	9.3200e-003	2.4600e-003	1.0000e-004	2.5600e-003		10.1855	10.1855	6.0000e-004	5.3000e-004	10.3573
Unmitigated	6.3400e-003	8.7700e-003	0.0547	1.0000e-004	9.2100e-003	1.0000e-004	9.3200e-003	2.4600e-003	1.0000e-004	2.5600e-003		10.1855	10.1855	6.0000e-004	5.3000e-004	10.3573

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	1.14	1.14	1.14	4,354	4,354
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
Total	1.14	1.14	1.14	4,354	4,354

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
Other Asphalt Surfaces	10.50	10.50	10.50	100.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	10.50	10.50	10.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.50	10.50	10.50	0.00	0.00	0.00	0	0	0
User Defined Recreational	10.50	10.50	10.50	0.00	0.00	0.00	0	0	0

Enterprise CEQA - Butte County AQMD Air District, 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 - Natural Gas

Unmitigated

	Natural Gas 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Enterprise CEQA - Butte County AQMD Air District, 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Enterprise CEQA - Butte County AQMD Air District, 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	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003
Unmitigated	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0199					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003
Total	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003

Enterprise CEQA - Butte County AQMD Air District, 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	0.0199					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.7500e-003	6.7500e-003	2.0000e-005	7.1900e-003
Total	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.7500e-003	6.7500e-003	2.0000e-005	7.1900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Enterprise CEQA - Butte County AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Enterprise CEQA - Butte County AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Enterprise CEQA
Butte County AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	10.85	1000sqft	0.25	10,850.00	0
Other Non-Asphalt Surfaces	3.00	1000sqft	0.07	3,000.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0
User Defined Recreational	4.00	User Defined Unit	0.11	4,650.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Construction Phase - Construction anticipated to take 5 months

Off-road Equipment - construction equipment list provided in Table 2.3-1. Concrete trucks accounted for in building construction vendor truck trips.

Off-road Equipment - construction equipment list provided in Table 2.3-1. Concrete trucks accounted for in building construction vendor truck trips.

Off-road Equipment - construction equipment list provided in Table 2.3-1. Concrete trucks accounted for in building construction vendor truck trips.

Off-road Equipment -

Vehicle Trips - it was conservatively assumed that maintenance of the picnic and trail would take place once a week all year while boat ramp maintenance would occur daily for the year. Therefore, 417 trips per year and 1.14 trips/day.0.105

Enterprise CEQA - Butte County AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	50.00
tblConstructionPhase	NumDays	10.00	8.00
tblConstructionPhase	NumDays	2.00	50.00
tblGrading	AcresOfGrading	50.00	2.00
tblGrading	MaterialExported	0.00	23,000.00
tblLandUse	LandUseSquareFeet	0.00	4,650.00
tblLandUse	LotAcreage	0.00	0.11
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.11
tblVehicleTrips	SU_TR	0.00	0.11
tblVehicleTrips	WD_TR	0.00	0.11

2.0 Emissions Summary

Enterprise CEQA - Butte County AQMD Air District, Winter

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	lb/day										lb/day					
Area	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.0600e-003	0.0101	0.0518	9.0000e-005	9.2100e-003	1.0000e-004	9.3200e-003	2.4600e-003	1.0000e-004	2.5600e-003		9.3235	9.3235	6.6000e-004	5.7000e-004	9.5101
Total	0.1315	0.0101	0.0549	9.0000e-005	9.2100e-003	1.1000e-004	9.3300e-003	2.4600e-003	1.1000e-004	2.5700e-003		9.3303	9.3303	6.8000e-004	5.7000e-004	9.5173

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	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.0600e-003	0.0101	0.0518	9.0000e-005	9.2100e-003	1.0000e-004	9.3200e-003	2.4600e-003	1.0000e-004	2.5600e-003		9.3235	9.3235	6.6000e-004	5.7000e-004	9.5101
Total	0.1315	0.0101	0.0549	9.0000e-005	9.2100e-003	1.1000e-004	9.3300e-003	2.4600e-003	1.1000e-004	2.5700e-003		9.3303	9.3303	6.8000e-004	5.7000e-004	9.5173

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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	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	6/1/2023	6/12/2023	5	8	
2	Grading	Grading	6/13/2023	8/21/2023	5	50	
3	Building Construction	Building Construction	8/22/2023	10/30/2023	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2

Acres of Paving: 0.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Graders	1	8.00	187	0.41
Demolition	Off-Highway Trucks	2	8.00	402	0.38
Demolition	Other Construction Equipment	1	8.00	172	0.42
Demolition	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Enterprise CEQA - Butte County AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Trucks	2	8.00	402	0.38
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Graders	1	8.00	187	0.41
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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	8	20.00	0.00	0.00	11.10	10.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,875.00	11.10	10.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	10.00	4.00	0.00	11.10	10.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Enterprise CEQA - Butte County AQMD Air District, 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					
Off-Road	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.6843	5,681.6843	1.8376		5,727.6236
Total	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.6843	5,681.6843	1.8376		5,727.6236

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	0.0816	0.0643	0.6257	1.4200e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		143.9833	143.9833	5.9200e-003	5.4200e-003	145.7463
Total	0.0816	0.0643	0.6257	1.4200e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		143.9833	143.9833	5.9200e-003	5.4200e-003	145.7463

Enterprise CEQA - Butte County AQMD Air District, 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					
Off-Road	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.6843	5,681.6843	1.8376		5,727.6236
Total	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.6843	5,681.6843	1.8376		5,727.6236

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	0.0816	0.0643	0.6257	1.4200e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		143.9833	143.9833	5.9200e-003	5.4200e-003	145.7463
Total	0.0816	0.0643	0.6257	1.4200e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		143.9833	143.9833	5.9200e-003	5.4200e-003	145.7463

Enterprise CEQA - Butte County AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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					6.1165	0.0000	6.1165	3.3227	0.0000	3.3227			0.0000			0.0000
Off-Road	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.684 3	5,681.684 3	1.8376		5,727.623 6
Total	2.9180	27.0482	22.7199	0.0587	6.1165	1.1489	7.2654	3.3227	1.0570	4.3797		5,681.684 3	5,681.684 3	1.8376		5,727.623 6

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	0.1367	8.3471	1.6774	0.0346	1.0078	0.0739	1.0817	0.2764	0.0707	0.3471		3,662.487 3	3,662.487 3	6.3700e-003	0.5757	3,834.194 4
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	0.0816	0.0643	0.6257	1.4200e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		143.9833	143.9833	5.9200e-003	5.4200e-003	145.7463
Total	0.2182	8.4115	2.3031	0.0360	1.1767	0.0749	1.2515	0.3212	0.0716	0.3928		3,806.470 6	3,806.470 6	0.0123	0.5811	3,979.940 7

Enterprise CEQA - Butte County AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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					6.1165	0.0000	6.1165	3.3227	0.0000	3.3227			0.0000			0.0000
Off-Road	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.684 3	5,681.684 3	1.8376		5,727.623 6
Total	2.9180	27.0482	22.7199	0.0587	6.1165	1.1489	7.2654	3.3227	1.0570	4.3797	0.0000	5,681.684 3	5,681.684 3	1.8376		5,727.623 6

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	0.1367	8.3471	1.6774	0.0346	1.0078	0.0739	1.0817	0.2764	0.0707	0.3471		3,662.487 3	3,662.487 3	6.3700e-003	0.5757	3,834.194 4
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	0.0816	0.0643	0.6257	1.4200e-003	0.1689	9.8000e-004	0.1698	0.0448	9.0000e-004	0.0457		143.9833	143.9833	5.9200e-003	5.4200e-003	145.7463
Total	0.2182	8.4115	2.3031	0.0360	1.1767	0.0749	1.2515	0.3212	0.0716	0.3928		3,806.470 6	3,806.470 6	0.0123	0.5811	3,979.940 7

Enterprise CEQA - Butte County AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.684 3	5,681.684 3	1.8376		5,727.623 6
Total	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570		5,681.684 3	5,681.684 3	1.8376		5,727.623 6

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	6.8500e-003	0.2842	0.0721	1.1600e-003	0.0390	1.9300e-003	0.0409	0.0112	1.8500e-003	0.0131		122.7698	122.7698	3.5000e-004	0.0183	128.2175
Worker	0.0408	0.0322	0.3129	7.1000e-004	0.0844	4.9000e-004	0.0849	0.0224	4.5000e-004	0.0229		71.9917	71.9917	2.9600e-003	2.7100e-003	72.8731
Total	0.0476	0.3164	0.3850	1.8700e-003	0.1234	2.4200e-003	0.1258	0.0336	2.3000e-003	0.0359		194.7615	194.7615	3.3100e-003	0.0210	201.0906

Enterprise CEQA - Butte County AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.6843	5,681.6843	1.8376		5,727.6236
Total	2.9180	27.0482	22.7199	0.0587		1.1489	1.1489		1.0570	1.0570	0.0000	5,681.6843	5,681.6843	1.8376		5,727.6236

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	6.8500e-003	0.2842	0.0721	1.1600e-003	0.0390	1.9300e-003	0.0409	0.0112	1.8500e-003	0.0131		122.7698	122.7698	3.5000e-004	0.0183	128.2175
Worker	0.0408	0.0322	0.3129	7.1000e-004	0.0844	4.9000e-004	0.0849	0.0224	4.5000e-004	0.0229		71.9917	71.9917	2.9600e-003	2.7100e-003	72.8731
Total	0.0476	0.3164	0.3850	1.8700e-003	0.1234	2.4200e-003	0.1258	0.0336	2.3000e-003	0.0359		194.7615	194.7615	3.3100e-003	0.0210	201.0906

4.0 Operational Detail - Mobile

Enterprise CEQA - Butte County AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.0600e-003	0.0101	0.0518	9.0000e-005	9.2100e-003	1.0000e-004	9.3200e-003	2.4600e-003	1.0000e-004	2.5600e-003		9.3235	9.3235	6.6000e-004	5.7000e-004	9.5101
Unmitigated	5.0600e-003	0.0101	0.0518	9.0000e-005	9.2100e-003	1.0000e-004	9.3200e-003	2.4600e-003	1.0000e-004	2.5600e-003		9.3235	9.3235	6.6000e-004	5.7000e-004	9.5101

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	1.14	1.14	1.14	4,354	4,354
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
Total	1.14	1.14	1.14	4,354	4,354

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
Other Asphalt Surfaces	10.50	10.50	10.50	100.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	10.50	10.50	10.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.50	10.50	10.50	0.00	0.00	0.00	0	0	0
User Defined Recreational	10.50	10.50	10.50	0.00	0.00	0.00	0	0	0

Enterprise CEQA - Butte County AQMD Air District, 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 - Natural Gas

Unmitigated

	Natural Gas 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Enterprise CEQA - Butte County AQMD Air District, 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Enterprise CEQA - Butte County AQMD Air District, 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	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003
Unmitigated	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0199					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003
Total	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7500e-003	6.7500e-003	2.0000e-005		7.1900e-003

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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	0.0199					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.7500e-003	6.7500e-003	2.0000e-005	7.1900e-003
Total	0.1264	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.7500e-003	6.7500e-003	2.0000e-005	7.1900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Enterprise CEQA - Butte County AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Enterprise Project Construction Assumptions

Project Construction and Operations - Enterprise

Construction Phases

Phase Name	Start Date	End Date	Num Days Week	Num Days
Demolition	6/1/2023	6/12/2023	5	8
Grading	6/13/2023	8/21/2023	5	50
Building Construction	8/22/2023	10/30/2023	5	50

Off Road Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	1	8	158	0.38
Demolition	Graders	1	8	187	0.41
Demolition	Off-Highway Trucks	2	8	402	0.38
Demolition	Other Construction Equipment	1	8	172	0.42
Demolition	Rollers	1	8	80	0.38
Demolition	Rubber Tired Dozers	1	8	247	0.4
Demolition	Tractors/Loaders/Backhoes	1	8	97	0.37
Grading	Excavators	1	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Off-Highway Trucks	2	8	402	0.38
Grading	Other Construction Equipment	1	8	172	0.42
Grading	Rollers	1	8	80	0.38
Grading	Rubber Tired Dozers	1	8	247	0.4
Grading	Tractors/Loaders/Backhoes	1	8	97	0.37
Building Construction	Excavators	1	8	158	0.38
Building Construction	Graders	1	8	187	0.41
Building Construction	Off-Highway Trucks	2	8	402	0.38
Building Construction	Other Construction Equipment	1	8	172	0.42
Building Construction	Rollers	1	8	80	0.38
Building Construction	Rubber Tired Dozers	1	8	247	0.4
Building Construction	Tractors/Loaders/Backhoes	1	8	97	0.37

Trips and VMT

Phase Name	Daily Worker Trip Number	Daily Vendor Trip Number	TOTAL Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Phase 1						
Site Preparation	20	0	0	16.8	-	20
Grading	20	0	2875	16.8	-	20
Paving	10	4	0	16.8	-	20

Stillwater Roadways Phase 2 Development—Energy Consumption Summary

Summary of Energy Use During Construction

(Annually)

Construction vehicle fuel

12,633 gallons (gasoline, diesel)

Construction equipment fuel

11,812 gallons (diesel)

Construction Vehicle Fuel Calculations (Page 1 of 2)

California Air Resource Board (CARB). 2021. EMFAC2017 Web Database. Website: <https://arb.ca.gov/emfac/2017/>.

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: County

Region: Butte

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for CVMT and EVMT, trips/year for Trips, kWh/year for Energy Consumption, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

VMT= Vehicle Miles Traveled

FE = Fuel Efficiency

Given										Calculations	
Region	Calendar Year	Vehicle Class	Model Year	Speed	Fuel	Population	VMT (mi/day)	Fuel Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE	
Butte	2023	HHDT	Aggregate	Aggregate	Gasoline	0.67129016	13353.779	3.460008626	3.85946395	51538.43	
Butte	2023	HHDT	Aggregate	Aggregate	Diesel	2363.31674	113218298	19137.61667	5.91600825	6.7E+08	
Butte	2023	LDA	Aggregate	Aggregate	Gasoline	66209.522	818616596	28624.55882	28.5984005	2.34E+10	
Butte	2023	LDA	Aggregate	Aggregate	Diesel	420.324347	4297734.1	102.0388887	42.1185897	1.81E+08	
Butte	2023	LDT1	Aggregate	Aggregate	Gasoline	10379.6019	103931280	4448.019327	23.3657437	2.43E+09	
Butte	2023	LDT1	Aggregate	Aggregate	Diesel	10.6282482	44818.387	1.872979253	23.9289286	1072456	
Butte	2023	LDT2	Aggregate	Aggregate	Gasoline	36425.322	455041154	19854.47183	22.9188244	1.04E+10	
Butte	2023	LDT2	Aggregate	Aggregate	Diesel	109.668334	1445566.7	45.82541835	31.5450839	45600522	
Butte	2023	LHDT1	Aggregate	Aggregate	Gasoline	4241.82354	46047031	5093.986827	9.03948759	4.16E+08	
Butte	2023	LHDT1	Aggregate	Aggregate	Diesel	6434.61954	71260555	4499.598679	15.8370912	1.13E+09	
Butte	2023	LHDT2	Aggregate	Aggregate	Gasoline	439.288469	5106135	613.2523832	8.32631899	42515309	
Butte	2023	LHDT2	Aggregate	Aggregate	Diesel	1725.30022	20828309	1609.497931	12.9408735	2.7E+08	
Butte	2023	MDV	Aggregate	Aggregate	Gasoline	30177.4002	347174895	18449.7333	18.8173395	6.53E+09	
Butte	2023	MDV	Aggregate	Aggregate	Diesel	664.552738	8687023.1	360.9162866	24.0693573	2.09E+08	
Butte	2023	MHDT	Aggregate	Aggregate	Gasoline	244.219818	3790203.2	790.1318207	4.79692509	18181321	
Butte	2023	MHDT	Aggregate	Aggregate	Diesel	1758.67953	24121136	2835.833414	8.50583658	2.05E+08	

Worker	
Sum of VMT*FE (Column BI)	4.32E+10
Total VMT	1.74E+09
Weighted Average Fuel Economy	24.86044

Vendor	
Sum of VMT*FE (Column BI)	2.75E+09
Total VMT	2.84E+08
Weighted Average Fuel Economy	9.670189

Haul	
Sum of VMT*FE (Column BI)	6.7E+08
Total VMT	1.13E+08
Weighted Average Fuel Economy	5.915766

Construction Vehicle Fuel Calculations (Page 2 of 2)

Construction

Schedule

Source: CalEEMod

CalEEMod Run	Phase Name	Start Date	End Date	Num Days
Summer 1				
Demolition		6/1/2023	6/12/2023	5
Grading		6/13/2023	8/21/2023	5
Building Construction		8/22/2023	10/30/2023	5

Construction Trips and VMT

Phase Name	Trips per Day		Total Trips	Construction Trip Length in Miles			Number of Days per Phase	Trips per Phase			VMT per Phase			Fuel Consumption (gallons)			
	Worker Trip Number	Vendor Trip Number		Worker Trip Length	Vendor Trip Length	Hauling Trip Length		Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips	
	Demolition	20	0	0	11.1	10.5	20	8	160	0	0	1,776	0	0	71.44	0.00	0.00
Grading	20	0	2875	11.1	10.5	20	50	1,000	0	2,875	11,100	0	57,500	446.49	0.00	9,719.79	
Building Construction	10	4	0	11.1	10.5	20	50	500	2,000	0	5,550	21,000	0	223.25	2,171.62	0.00	
											Total	18,426	21,000	57,500	741	2,172	9,720

Construction Equipment Fuel Calculation (Page 1 of 2)

Source: Roadway Construction Model

Construction Schedule

Construction Area	Phase Type	Start Date	End Date	Num Days Week	Num Days
	Demolition	6/1/2023	6/12/2023	5	8
	Grading	6/13/2023	8/21/2023	5	50
	Building Construction	8/22/2023	10/30/2023	5	50

Phase Name	Offroad Equipment Type	Usage Hours	Number	HP	Number of Days	Load Factor	HP Hours	Fuel (gallons/HP-hour)	Diesel Fuel Usage
Demolition	Excavators	8	1	158	8	0.38	3842.56	0.020	75.93
Demolition	Graders	8	1	187	8	0.41	4906.88	0.021	104.14
Demolition	Off-Highway Trucks	8	2	402	8	0.38	19553.28	0.020	384.72
Demolition	Other Construction Equipment	8	1	172	8	0.42	4623.36	0.021	98.95
Demolition	Rollers	8	1	80	8	0.38	1945.60	0.019	37.75
Demolition	Rubber Tired Dozers	8	1	247	8	0.4	6323.20	0.020	129.51
Demolition	Tractors/Loaders/Backhoes	8	1	97	8	0.37	2296.96	0.019	43.93
Grading	Excavators	8	1	158	50	0.38	24016.00	0.020	474.59
Grading	Graders	8	1	187	50	0.41	30668.00	0.021	650.89
Grading	Off-Highway Trucks	8	2	402	50	0.38	122208.00	0.020	2,404.52
Grading	Other Construction Equipment	8	1	172	50	0.42	28896.00	0.021	618.41
Grading	Rollers	8	1	80	50	0.38	12160.00	0.019	235.94
Grading	Rubber Tired Dozers	8	1	247	50	0.4	39520.00	0.020	809.47
Grading	Tractors/Loaders/Backhoes	8	1	97	50	0.37	14356.00	0.019	274.59
Building Construction	Excavators	8	1	158	50	0.38	24016.00	0.020	474.59
Building Construction	Graders	8	1	187	50	0.41	30668.00	0.021	650.89
Building Construction	Off-Highway Trucks	8	2	402	50	0.38	122208.00	0.020	2,404.52
Building Construction	Other Construction Equipment	8	1	172	50	0.42	28896.00	0.021	618.41
Building Construction	Rollers	8	1	80	50	0.38	12160.00	0.019	235.94
Building Construction	Rubber Tired Dozers	8	1	247	50	0.4	39520.00	0.020	809.47
Building Construction	Tractors/Loaders/Backhoes	8	1	97	50	0.37	14356.00	0.019	274.59
TOTAL									11,811.77

Total Construction Equipment Fuel Consumption (gallons)

Notes:

Equipment assumptions are provided in the Roadway Construction output files.
 Source of usage estimates: California Air Resource Board (CARB). 2022. OFFROAD2021 Emissions Inventory
 Website: <https://arb.ca.gov/emfac/emissions-inventory/1858de04a6d6b82e26fb52258ce3499ee8e4f21b>
 all emissions calculated conservatively using 2023 emission factors.

Construction Equipment Fuel Calculation (Page 2 of 2)

Model Output: OFFROAD2021 (v1.0.3) Emissions Inventory

Region Type: County

Region: Butte

Calendar Year: 2023

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2021 Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower r Bin	Fuel	Fuel Consumption	Horsepower_Hou rs_hhpy	Fuel (gallons/HP- hour)
Butte	2023	Construction and Mining - Excavators	Aggregate	100	Diesel	28565.41267	1452859.533	0.01966151
Butte	2023	Construction and Mining - Excavators	Aggregate	175	Diesel	60966.18775	3085106.463	0.019761453
Butte	2023	Construction and Mining - Excavators	Aggregate	25	Diesel	6.901659559	314.6536046	0.021934151
Butte	2023	Construction and Mining - Excavators	Aggregate	300	Diesel	77612.29095	3925060.736	0.019773526
Butte	2023	Construction and Mining - Excavators	Aggregate	50	Diesel	22250.24782	1013188.738	0.021960615
Butte	2023	Construction and Mining - Excavators	Aggregate	75	Diesel	289.9579725	14798.47232	0.019593777
Butte	2023	Construction and Mining - Graders	Aggregate	100	Diesel	3445.85743	165154.5169	0.020864446
Butte	2023	Construction and Mining - Graders	Aggregate	175	Diesel	37055.00724	1745929.619	0.021223655
Butte	2023	Construction and Mining - Graders	Aggregate	25	Diesel	4.277874983	181.9834831	0.023506941
Butte	2023	Construction and Mining - Graders	Aggregate	300	Diesel	76848.72532	3632264.332	0.02115725
Butte	2023	Construction and Mining - Graders	Aggregate	50	Diesel	143.2039298	6086.103955	0.023529656
Butte	2023	Construction and Mining - Graders	Aggregate	75	Diesel	53.21291134	2423.698491	0.021955252
Butte	2023	Construction and Mining - Off-Highway Trucks	Aggregate	100	Diesel	539.9325599	27261.36776	0.019805777
Butte	2023	Construction and Mining - Off-Highway Trucks	Aggregate	175	Diesel	21170.06331	1073727.772	0.019716416
Butte	2023	Construction and Mining - Off-Highway Trucks	Aggregate	25	Diesel	0	0	#DIV/0!
Butte	2023	Construction and Mining - Off-Highway Trucks	Aggregate	300	Diesel	43005.73543	2185733.057	0.019675658
Butte	2023	Construction and Mining - Off-Highway Trucks	Aggregate	50	Diesel	890.3386191	40796.48726	0.021823904
Butte	2023	Construction and Mining - Off-Highway Trucks	Aggregate	75	Diesel	298.4129125	15046.41879	0
Butte	2023	Construction and Mining - Other	Aggregate	100	Diesel	14557.62054	677078.2952	0.021500646
Butte	2023	Construction and Mining - Other	Aggregate	175	Diesel	8497.108135	397036.3593	0.021401335
Butte	2023	Construction and Mining - Other	Aggregate	25	Diesel	0	0	0
Butte	2023	Construction and Mining - Other	Aggregate	300	Diesel	11161.68205	518594.8973	0.021522931
Butte	2023	Construction and Mining - Other	Aggregate	50	Diesel	4990.257087	207934.9637	0.023999125
Butte	2023	Construction and Mining - Other	Aggregate	75	Diesel	1058.006462	50039.83924	0.021143283
Butte	2023	Construction and Mining - Rollers	Aggregate	100	Diesel	19445.88327	1001759.214	0.019411734
Butte	2023	Construction and Mining - Rollers	Aggregate	175	Diesel	20240.16961	1043972.271	0.019387651
Butte	2023	Construction and Mining - Rollers	Aggregate	25	Diesel	1.959720402	90.89336502	0.021560654
Butte	2023	Construction and Mining - Rollers	Aggregate	300	Diesel	3422.157027	176338.2668	0.019406775
Butte	2023	Construction and Mining - Rollers	Aggregate	50	Diesel	12525.41362	580593.2259	0
Butte	2023	Construction and Mining - Rollers	Aggregate	75	Diesel	131.0221674	6752.649874	0.019403074
Butte	2023	Construction and Mining - Rubber Tired Dozers	Aggregate	100	Diesel	1738.028036	84381.89399	0.020597168

Butte	2023 Construction and Mining - Rubber Tired Dozers	Aggregate	175 Diesel	2412.415458	117927.5448	0.02045676
Butte	2023 Construction and Mining - Rubber Tired Dozers	Aggregate	25 Diesel	0	0	#DIV/0!
Butte	2023 Construction and Mining - Rubber Tired Dozers	Aggregate	300 Diesel	2716.634709	132632.0555	0.02048249
Butte	2023 Construction and Mining - Rubber Tired Dozers	Aggregate	50 Diesel	552.6421465	24310.38033	0.022732764
Butte	2023 Construction and Mining - Rubber Tired Dozers	Aggregate	75 Diesel	593.7732932	28958.21455	0.020504486
Butte	2023 Construction and Mining - Tractors/Loaders/Backhoe: Aggregate		100 Diesel	299069.6313	15635858.71	0.019127164
Butte	2023 Construction and Mining - Tractors/Loaders/Backhoe: Aggregate		175 Diesel	52249.3797	2751390.493	0.018990172
Butte	2023 Construction and Mining - Tractors/Loaders/Backhoe: Aggregate		25 Diesel	0	0	#DIV/0!
Butte	2023 Construction and Mining - Tractors/Loaders/Backhoe: Aggregate		300 Diesel	32788.91158	1724065.239	0.019018371
Butte	2023 Construction and Mining - Tractors/Loaders/Backhoe: Aggregate		50 Diesel	18683.60151	889009.1758	0.021016208
Butte	2023 Construction and Mining - Tractors/Loaders/Backhoe: Aggregate		75 Diesel	2811.057786	147273.4827	0.019087332