

Initial Environmental Study

- 1. Project Title:** City of Azusa
Aspan Well Rehabilitation and Treatment Project
- 2. Lead Agency Name and Address:**
City of Azusa
213 E Foothill Boulevard
Azusa, CA 91702
- 3. Contact Person and Phone Number:**
Melissa Barbosa, Assistant General Manager – Water Operations
(626) 812-5173
- 4. Project Location:** Within the City of Azusa at 220 W. Aspan Avenue
- 5. Project Sponsor's Name and Address:**
City of Azusa
213 E Foothill Boulevard
Azusa, CA 91702
- 6. General Plan Designation:**
The Project site is located within the City of Azusa and the site is designated as Government Use in the City of Azusa General Plan.
- 7. Zoning:** The Project site is zoned as West End Light Industrial (DWL) within the City of Azusa. The area is zoned as low density residential on the north side of the site, an elementary school and low density residential to the east side and a park and medium density residential to the south.
- 8. Description of the Project:** (Describe the whole action involved, including but not limited to later phases of the Project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary).

The Azusa Light and Water (ALW) Aspan Well is located on a City owned water facility site just south of 3rd Street at 220 W. Aspan Avenue in Azusa, as shown on Figure 1. Aspan Well produces groundwater from the Main San Gabriel Groundwater Basin (Main Basin). The well site ground surface is generally covered with a thin layer of aggregate base with some asphalt concrete and has an existing welded steel tank and booster pump station that have been inactive since the late 1980's.

The proposed project involves the rehabilitation of the Aspan Well which is currently inactive and has experienced deterioration of the well casing. As part of the rehabilitation, ALW will install a new well casing liner to preserve the well's

integrity and will remove the existing welded steel tank and booster pump station from the site. The Aspan Well will be enclosed in a roll-off type sound enclosure.

The current water quality issue for the Aspan Well is the presence of 1,1-DCE in excess of the maximum contaminant level (MCL), the concentration allowed in drinking water by the California State Water Resources Control Board – Division of Drinking Water, which requires the installation of a Liquid Phase Granular Activated Carbon (LGAC) treatment system. In addition, Nitrate has been detected in the past in the Aspan Well, although Nitrate concentrations were recently shown to be below the MCL. A final determination will be made on the installation of the Ion Exchange (IX) treatment system after existing water quality of the well is confirmed during test pumping following rehabilitation of the well.

The proposed LGAC treatment system will be designed for a flow of approximately 1,800 gallons per minute (gpm) and will include two pairs of 12-foot diameter filtration vessels. The size of the footprint of the new LGAC treatment system is approximately 75 feet by 25 feet and will need to be accessible to large trucks for delivery and change out of the carbon filtration media. The treatment vessels and associated piping will be approximately 16 feet tall. As part of the backwashing process, a new 30,000-gallon bolted steel backwash tank will be constructed to store the backwash water before it is discharged to the sanitary sewer by gravity.

If treatment for nitrates is needed, the IX treatment system will be installed downstream of the LGAC system and will feature three vessels working in parallel. At any time, two (2) of the ion exchange vessels will be online treating water while the resin in the remaining one (1) ion exchange vessel is in regeneration mode or on stand-by mode. During the resin regeneration process, the IX treatment system will produce approximately 25,500 gallons per day of highly saline brine waste. A new 34,000 gallon brine waste tank will be constructed to temporarily hold the brine waste. The brine waste will be discharged from the tank to a Los Angeles County Sanitation Districts' (LACSD) sewer line located approximately three quarters of a mile southwest of the Aspan Well site at Gladstone Street and Irwindale Avenue. A new 8-inch diameter PVC brine discharge pipeline will convey brine waste to the LACSD sewer line, as shown on Figure 1.

The LGAC and IX treatment systems will be enclosed in one industrial metal building and will include an electrical equipment room, office, restroom, and a room to store a chemical disinfectant (Liquid Sodium Hypochlorite) and the equipment to inject the disinfectant into the treated water. A diesel generator will be installed on site to provide backup power for the well and treatment system.

Treated water will be supplied to ALW's existing pipelines located in Aspan Avenue and onsite that are part of ALW's potable water distribution system. Well waste water, well test water, and waste water for testing operations will be discharged through a new drain pipeline that will connect to the existing Los Angeles County Flood Control District (LACFCD) 51-inch diameter storm drain located

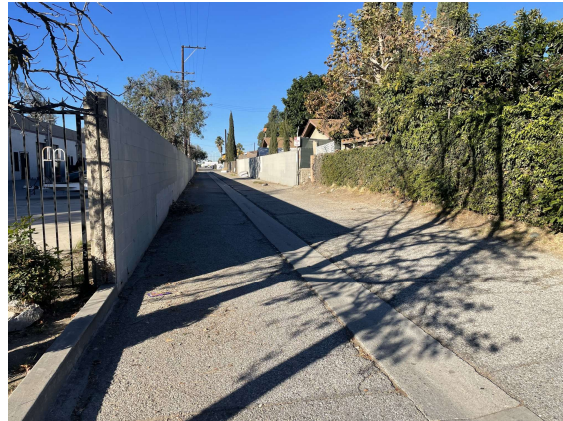
approximately 0.5 miles south of the well site near the intersection of South Virginia Avenue and West Paramount Street.

9. Surrounding Land Uses and Setting (briefly describe the project's surroundings):

The proposed Project is in the City of Azusa. The surrounding neighborhood includes industrial, low density residential and medium density residential properties. Surrounding areas of the proposed Project are shown in photos below.



Residential property north of site



Industrial and residential properties west of site

10. Other agencies whose approval is required (e.g., permits, financing approval, or participation agreement):

- State Water Resources Control Board Division of Drinking Water
- Main San Gabriel Basin Watermaster
- County Sanitation Districts of Los Angeles County
- City of Azusa
- Regional Water Quality Control Board
- Los Angeles County Flood Control District

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below could be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

☐ Aesthetics

☐ Agriculture and Forestry

☐ Air Quality

☐ Biological Resources

☐ Cultural Resources

☐ Energy

- | | |
|---|--|
| ☐ Geology/Soils | ☐ Greenhouse Gas Emissions |
| ☐ Hazards and Hazardous Materials | ☐ Hydrology/Water Quality |
| ☐ Land Use/Planning | ☐ Mineral Resources |
| ☐ Noise | ☐ Population/Housing |
| ☐ Public Services | ☐ Recreation |
| ☐ Transportation | ☐ Tribal Cultural Resources |
| ☐ Utilities/Service Systems | ☐ Wildfire |
| ☐ Mandatory Findings of Significance | |

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

- ☒ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- ☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature


MELISSA BARBOZA, ALW

Date

06/13/2024

Print Name

	Significant Impact	Less Than Significant or Less than Significant with Mitigation Incorporation	No Impact	Analyzed in the Prior EIR	Substantially Mitigated by Uniformly Applicable Development Policies
I. AESTHETICS -- Except as provided in Public Resources Code Section 21099, would the project:					
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐	☐
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☒	☐	☐
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐	☐
II. AGRICULTURE AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:					
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☒	☐	☐

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☒	☐	☐
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☒	☐	☐
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☒	☐	☐
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☒	☐	☐
III. AIR QUALITY -- Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:					
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard ?	☐	☒	☐	☐	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☒	☐	☐	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐	☐
IV. BIOLOGICAL RESOURCES -- Would the project:					
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☒	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	☐	☐	☒	☐	☐

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? ☐ ☐ ☒ ☐ ☐

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? ☐ ☐ ☒ ☐ ☐

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? ☐ ☐ ☒ ☐ ☐

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? ☐ ☐ ☒ ☐ ☐

V. CULTURAL RESOURCES -- Would the project:

a) Cause a substantial adverse change in the significance of a historical resource pursuant to in '15064.5? ☐ ☐ ☒ ☐ ☐

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to '15064.5? ☐ ☐ ☒ ☐ ☐

c) Disturb any human remains, including those interred outside of formal cemeteries? ☐ ☐ ☒ ☐ ☐

VI. ENERGY -- Would the project:

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? ☐ ☒ ☐ ☐ ☐

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? ☐ ☐ ☒ ☐ ☐

VII. GEOLOGY AND SOILS -- Would the project:

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo ☐ ☐ ☒ ☐ ☐

Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

ii) Strong seismic ground shaking?	☐	☒	☐	☐	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐	☐
iv) Landslides?	☐	☐	☒	☐	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☒	☐	☐
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐	☐

VIII. GREENHOUSE GAS EMISSIONS

Would the project:

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☒	☐	☐	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐	☐

IX. HAZARDS AND HAZARDOUS MATERIALS

Would the project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☒	☐	☐	☐
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| b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | ☐ | ☐ | ☒ | ☐ | ☐ |
| c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | ☐ | ☐ | ☒ | ☐ | ☐ |
| d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | ☐ | ☐ | ☒ | ☐ | ☐ |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? | ☐ | ☐ | ☒ | ☐ | ☐ |
| f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | ☐ | ☐ | ☒ | ☐ | ☐ |
| g) Expose people or structures, either directly or indirectly to a significant risk of loss, injury or death involving wildland fires? | ☐ | ☐ | ☒ | ☐ | ☐ |

X. HYDROLOGY AND WATER QUALITY --
Would the project:

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| a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? | ☐ | ☒ | ☐ | ☐ | ☐ |
| b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? | ☐ | ☐ | ☒ | ☐ | ☐ |
| c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: | ☐ | ☐ | ☒ | ☐ | ☐ |
| (i) result in substantial erosion or siltation on- or off-site; | ☐ | ☐ | ☒ | ☐ | ☐ |
| (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; | ☐ | ☐ | ☒ | ☐ | ☐ |
| (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; | ☐ | ☐ | ☒ | ☐ | ☐ |

or

(iv) impede or redirect flood flows? ☐ ☐ ☒ ☐ ☐

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? ☐ ☐ ☒ ☐ ☐

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? ☐ ☐ ☒ ☐ ☐

XI. LAND USE AND PLANNING - Would the project:

a) Physically divide an established community? ☐ ☐ ☒ ☐ ☐

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? ☐ ☐ ☒ ☐ ☐

XII. MINERAL RESOURCES -- Would the project:

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? ☐ ☐ ☒ ☐ ☐

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? ☐ ☐ ☒ ☐ ☐

XIII. NOISE -- Would the project result in:

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? ☐ ☒ ☐ ☐ ☐

b) Generation of excessive groundborne vibration or groundborne noise levels? ☐ ☒ ☐ ☐ ☐

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? ☐ ☐ ☒ ☐ ☐

XIV. POPULATION AND HOUSING -- Would the project:

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? ☐ ☐ ☒ ☐ ☐

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? ☐ ☐ ☒ ☐ ☐

XV. PUBLIC SERVICES

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

Fire protection? ☐ ☐ ☒ ☐ ☐

Police protection? ☐ ☐ ☒ ☐ ☐

Schools? ☐ ☐ ☒ ☐ ☐

Parks? ☐ ☐ ☒ ☐ ☐

Other public facilities? ☐ ☐ ☒ ☐ ☐

XVI. RECREATION --

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? ☐ ☐ ☒ ☐ ☐

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? ☐ ☐ ☒ ☐ ☐

XVII. TRANSPORTATION -- Would the project:

a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? ☐ ☒ ☐ ☐ ☐

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

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c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

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d) Result in inadequate emergency access?

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XVIII. TRIBAL CULTURAL RESOURCES -- Would the project:

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or

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ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

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XIX. UTILITIES AND SERVICE SYSTEMS -- Would the project:

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

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b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

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c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

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d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐	☐
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e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐	☐
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XX. WILDFIRE -- If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐	☐
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b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐	☐
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c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐	☐
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d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☒	☐	☐
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XXI. MANDATORY FINDINGS OF SIGNIFICANCE --

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☐	☒	☐	☐
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b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively Considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☐	☒	☐	☐
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c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☒	☐	☐
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Discussion of Environmental Evaluation

This section provides an explanation of all answers noted on the Environmental Checklist.

I. AESTHETICS

Would the Project:

a) Have a substantial adverse effect on a scenic vista?

No impact. The proposed Project will consist of construction of a groundwater treatment plant housed inside a building. The proposed Project is located within the City's existing well and reservoir site with similar facilities onsite. The Project site has block walls around the perimeter and the treatment plant that will be housed inside a building will be partially screened from view by other existing facilities, therefore, the proposed Project will not have any impact on a scenic vista.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No impact. The proposed Project will not damage any scenic resources.

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

No Impact. The proposed Project will not substantially degrade the existing visual character or quality of the site and its surroundings. The proposed Project is consistent with existing zoning at that location and will not post any conflict to regulations governing scenic quality.

d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?

No impact. The proposed Project will not have any lighting that will have any impact on day or nighttime views in the area.

II. AGRICULTURAL RESOURCES

Would the Project:

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No impact. The Project is located in a light industrial zone. There is no farmland located within the vicinity of the Project and no conversion of farmland will occur.

b) Conflict with existing zoning for agricultural use, or a Williamson act contract?

No impact. The Project area is not zoned for agriculture.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No impact. The Project will not conflict with any existing zoning or cause rezoning of forest land.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

No impact. No forest land is located within the vicinity of the Project and no conversion of forest land will occur.

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

No impact. The proposed Project will not result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use.

III. AIR QUALITY

To comply with the Proposed Rule (PR) 1407.1, the latest California Emissions Estimator Model (CalEEMod version 2020.4.0) was used to evaluate the potential impacts on air quality generated from the proposed Project. The focus of the air quality impact assessment was on the air emissions generated from construction activities. Operational emissions would be minimal and were not considered as part of the model analysis. The proposed Project activities and schedules are provided in Table 1 and results of the CalEEMod calculated exhaust emissions are summarized in Table 2. The CalEEMod generated annual air emissions reports and the associated assumptions are included in Attachment A. Details of the air quality impact assessment are discussed below.

Would the Project:

a) Conflict With or Obstruct Implementation of the Applicable Air Quality Plan?

No impact. The project is located within the South Coast Air Basin, which is under the jurisdiction of the SCAQMD. The Southern California Association of Governments (SCAG) is responsible for preparing the regional transportation strategy and control measures portion of an Air Quality Management Plan (AQMP), which addresses federal and state Clean Air Act requirements. The SCAQMD is responsible for administering the AQMP, which essentially details goals, policies, and programs for improving air quality and establishes thresholds for daily operational emissions. Environmental review of individual projects within the region must demonstrate the daily construction and operational emissions thresholds as established by SCAQMD will not be exceeded, nor will the number or severity of existing air quality violations be increased.

Considering the Project's activities and timetable (Table 1) and the calculated air quality results from the CalEEMod modeling (Table 2), both the construction and operation of the proposed Project are anticipated to remain within the emissions thresholds set by the AQMP.

EPA regional offices are required by Title V of the Clean Air Act (CAA) to issue Title V operating permits. EPA sets National Ambient air Quality Standards (NAAQS) for six common air pollutants including Carbon Monoxide (CO), ground-level Ozone (O₃), Lead (Pb), Nitrogen Oxides (NO_x), Particulate Matter (PM) and Sulfur Dioxide (SO₂). According to EPA, the major source threshold for any air pollutant is 100 tons per year (tpy) and major source thresholds for hazardous air pollutants are 10 tpy and 25 tpy for a single and any combination of hazardous air pollutant, respectively. Ozone is created when Nitrogen Oxide (NO_x) and Reactive Organic Gases [ROGs; also known as Volatile Organic Compounds (VOCs)] react with sunlight and heat, so NO_x and ROG are considered precursors to Ozone. The construction and operation of the proposed project will not exceed any of the attainment thresholds based on emission estimates from the CalEEMod modeling, shown on Table 2, and will conform with State Implementation Plan; therefore, there will be no significant impact.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?

Less than Significant Impact. The SCAQMD provides guidance for evaluating air quality impacts of projects. The Project activities were modeled based on the estimated Project schedule and anticipated equipment and construction methods. Table 1 identifies the project schedule and project activity examined. The CalEEMod model calculates the construction related exhaust emissions from the construction of the Project in pounds per day (lb/day). The exhaust emissions include ROGs, NO_x, CO, SO₂, PM with a diameter of 10 micrometers (mm) or less (PM₁₀), and PM with a diameter of 2.5 mm or less (PM_{2.5}). The significance of

Project air quality impacts based on the thresholds of significance established by the SCAQMD are provided in Table 2. The CalEEMod modeling was performed for the Project activities during construction because most of the air emissions will be generated during the construction phase and not during operation of the Project. Generally, the operations of the proposed Project will involve routine site management and inspections, intermittent visits for groundwater sampling and water level assessments, along with routine treatment equipment operation and maintenance. The emissions calculated during the construction phase all fall below the specified thresholds. The operational activities of the Project will be significantly less intensive compared to the activities during the construction phase. As a result, the associated impacts on air quality and global climate change from the operations of the proposed Project are expected to be below the significant threshold levels set by SCAQMD.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less than Significant Impact. As per the SCAQMD, sensitive receptors are individuals living in close proximity to the proposed Project, particularly those who are more vulnerable to air pollution such as children, the elderly, and patients. The Project site, situated within ALW's private property, is surrounded by a landfill site to the west, a permanently closed school to the east, and areas zoned for light industrial and residential use to the south and north. Any project which has the potential to directly impact a sensitive receptor located within one mile and results in a health risk greater than the risk significance thresholds would be deemed to have a potentially significant impact. The following sensitive receptors were identified to be located within one mile of the Project site: Paramount Elementary School, approximately 3,000 feet away; and Alpha Infant Care & Pre-School, approximately 4,000 feet away.

The State of California considers diesel exhaust particulate matter to be carcinogenic compounds. Diesel exhaust particulate matter will be emitted during construction due to the operation of construction equipment at the site. Since diesel exhaust particulate matter is considered to be carcinogenic, long-term exposure to diesel exhaust emissions have the potential to result in adverse health impacts.

The CalEEMod modeling results (Table 2) indicate that the significant emissions generated during construction activities would result in negligible impacts on air quality and global climate change. Furthermore, mitigation measures such as misting water spray will be implemented to reduce dust and particulate matter during construction. Impacts to sensitive receptors from construction related air emissions will be less than significant.

d) Create objectionable odors affecting a substantial number of people?

No Impact. The proposed Project operation will not create any objectionable odors. Any odors generated by the construction equipment (vehicle emission) will be temporary and controlled in accordance with SCAQMD Rule 402 (Nuisance Emissions). No impact is anticipated.

IV. BIOLOGICAL RESOURCES

Would the Project:

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

No Impact. The project site is located within a property that is currently developed for industrial use. The animal species common to the site and the surrounding area are typical of those found in an urbanized setting. No locally designated species are located in the project site and its vicinity area. In addition, no significant mature trees (Heritage Trees) will be impacted by the proposed project. The project site is not located within an area governed by a habitat conservation or community conservation plan. There will be no impact.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

No impact. The Site and immediate surrounding areas are developed with light industrial and residential uses. Given the longstanding use of the Site as a water utility facility, there are no riparian habitat or sensitive natural communities on-site. In addition, no significant mature trees (Heritage Trees) will be impacted by the proposed project. The project site is not located within an area governed by a habitat conservation or community conservation plan. There will be no impact.

c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No impact. There are no federally protected wetlands within the project vicinity.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

No Impact. The project site is located within a property that is currently developed for industrial use. The animal species common to the site and the surrounding area

are typical of those found in an urbanized setting. The project site is not located within an area governed by a habitat conservation or community conservation plan. There will be no impact.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

No impact. The proposed project will not have any conflict with any local policies or ordinances protecting biological resources.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approval local, regional, or state habitat conservation plan?

No impact. The proposed project will not have any conflict with the provisions of any adopted Habitat Conservation Plan.

V. CULTURAL RESOURCES

Would the Project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?

No Impact. The Site and immediate surrounding areas are developed with light industrial and residential uses. Given the longstanding use of the Site as a water utility facility, the Project will not cause a substantial adverse change in the significance of a historical resource as defined in §15064.5.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

No Impact. The Site and immediate surrounding areas are developed with light industrial and residential uses. Given the longstanding use of the Site as a water utility facility, the Project will not cause a substantial adverse change in the significance of an archaeological resource as defined in §15064.5.

c) Disturb any human remains, including those interred outside of formal cemeteries?

No Impact. The Project site is not historically or culturally significant to any group or individual. There are no cemeteries located in the immediate area that will be affected by the proposed Project. As a result, the proposed Project will not disturb any human remains, including those interred outside of formal cemeteries.

VI. ENERGY

Would the Project:

- a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less Than Significant Impact. The Project would not require any new construction that could involve wasteful, inefficient, or unnecessary consumption of energy resources. Construction equipment will temporarily use gas or diesel during the construction of the project. Additional energy will be needed to pump groundwater. However, the Project will include a highly efficient well pump, as such the consumption of energy resources for the Project would be less than significant.

- b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

No Impact. The Project site would not interfere with any state or local plans for renewable energy or energy efficiency.

VII. GEOLOGY AND SOILS

Would the Project:

- a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

- i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

No impact. The State of California Department of Conservation indicates that no Alquist-Priolo Fault Hazard Zones are located in the project vicinity within the City.

- ii) Strong seismic ground shaking?

Less than Significant Impact. All construction activities, including grading work, will be performed in accordance with approved construction standards and practices. There will be no significant impact.

- iii) Seismic-related ground failure, including liquefaction?

No impact. A geotechnical investigation was performed as part of the preliminary design to determine the stability of the soil conditions in the Project area. The geotechnical investigation did not identify any seismic-related ground failure issue including liquefaction in the Project area.

iv) Landslides?

No impact. The proposed Project is not located within a potential landslide area as the terrain in the area is relatively flat.

b) Result in substantial soil erosion or the loss of topsoil?

No impact. A geotechnical investigation was performed as part of the preliminary design to determine the stability of the soil conditions in the Project area. The proposed Project will not result in soil erosion or loss of topsoil.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

No impact. A geotechnical investigation was performed as part of the preliminary design to determine the stability of the soil conditions. The proposed Project will not be located on soil that is unstable, or that will become unstable as a result of the Project.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

No impact. A geotechnical investigation was performed as part of the preliminary design to determine the stability of the soil conditions. The Project will create no risk to life or property.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

No impact. The proposed Project will not require the use of septic tanks or alternative waste water disposal system; therefore, there will be no impacts.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geological feature?

No Impact. There are no known paleontological features or unique geologic features known to exist on the Project site. If any paleontological resources are encountered during construction, a qualified paleontologist would be contacted to assess the significance of the paleontological resource.

VIII. GREENHOUSE GAS EMISSIONS

Would the Project:

- a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than Significant Impact. Greenhouse gas (GHG) emissions will result from the use of construction equipment, construction worker vehicles, and truck haul trips during construction of the proposed Project and potentially from the occasional operation of an emergency generator. A computer model (CalEEMod version 2020.4.0) published by the SCAQMD has been used to estimate the potential greenhouse gas emissions associated with the construction of an extraction well.

The SCAQMD Governing Board approved an interim GHG significance threshold of 3,000 metric tons per year (MT/yr) of carbon dioxide equivalent (CO₂e) emissions for projects under its jurisdiction on December 5, 2008. . This value is based on the relative contribution of GHG emissions between residential/commercial sectors and stationary source (industrial) sectors. As the proposed Project is located within the SCAQMD's jurisdiction, this interim threshold of 3,000 MT/yr for CO₂e is adopted in this analysis as the significance threshold.

According to the results obtained from the CalEEMod calculations (Table 2), the CO₂e air emissions projected from construction of the proposed Project is approximately 536 MT/yr. This value is below the 3,000 MT/yr threshold, suggesting that the operations of the proposed Project are not expected to substantially contribute, directly or indirectly, to greenhouse gas emissions above existing conditions.

- b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

No impact. The proposed Project will include the emission of greenhouse gas primarily from diesel fuel utilized by the construction machinery. However, this is consistent with normal construction activities and will post no conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

IX. HAZARDS AND HAZARDOUS MATERIALS

Would the Project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less than Significant Impact. As part of the treatment process, the Project will transport, store and use sodium hypochlorite (12.5%) and sulfuric acid (93%), both of which are considered hazardous materials. The sodium hypochlorite will be stored in a double contained 475 gallon tank and the sulfuric acid will be stored in a double contained 70 gallon tank. The chemicals will be delivered by certified vendors that follow all requirements for transport of hazardous materials. There will be no significant impact.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

No Impact. The Project would not involve any hazardous waste, so there would be no risk to the public or the environment involving the Project.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

No Impact. The Project would not involve any hazardous emissions or handling of hazardous materials, substances, or waste. In addition, there are no schools within one-quarter mile of the Project site. Therefore, it would not pose a risk to existing or proposed school.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No impact. The proposed Project area is not included on a list of hazardous materials sites.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No impact. The proposed Project area is not located within two miles of a public airport or public use airport.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

No impact. The proposed Project will result in more secure water supply for the City to meet existing and future normal and emergency water operation system

needs. The proposed Project will be performed in accordance with city approved traffic control plans and will not impair the implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.

g) Expose people or structures, either directly or indirectly to a significant risk of loss, injury or death involving wildland fires?

No impact. The proposed Project area is not located near any wildlands and there will be no impact associated with wildland fires.

X. HYDROLOGY AND WATER QUALITY

Would the Project:

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less than Significant Impact. A routine part of the rehabilitation of water extraction wells requires temporary discharge to waste of extracted groundwater. It is estimated that the well will discharge to waste for approximately 90 hours, for a total discharge volume of approximately 130 acre-feet during construction. The extracted water will be tested to confirm it meets the Regional Water Quality Control Board's applicable standards for discharge to surface waters before it is discharged.

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

No impact. The proposed Project will operate in compliance with the Main Basin Judgement. The judgment establishes a safe annual yield from the basin and oversees groundwater extractions from the basin, and as a result, there will be no impact associated with depletion of groundwater supplies or recharge.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the additional of impervious surfaces, in a manner which would:

i. result in substantial erosion or siltation on- or off-site

No impact. The proposed Project will not alter the existing drainage pattern of the site or area in a manner which would result in substantial erosion or siltation on- or off-site.

ii. Substantially increase the rate or amount of surface water runoff in manner which would result in flooding on- or offsite;

No impact. The proposed Project will not substantially increase the rate or amount of surface water runoff in a manner which would result in substantial erosion or siltation on- or off-site.

- iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or

No impact. The proposed Project will not create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

- iv. Impede or redirect flood flows?

No impact. The proposed Project will not alter the existing drainage pattern of the site in a manner which would impede or redirect flood flows.

- d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No impact. The proposed Project is not located in flood hazard, tsunami, or seiche zones.

- e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No impact. The proposed Project will not be in conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

XI. LAND USE AND PLANNING

Would the Project:

- a) Physically divide an established community?

No impact. Construction of the proposed Project will not physically divide an established community as the proposed Project will be located within the site of existing City's water facilities.

- b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact. The proposed Project will be constructed in a developed site that currently includes similar public service facilities and will not conflict with any

applicable land use plan, policy or regulation of an agency with jurisdiction over the Project.

XII. MINERAL RESOURCES

Would the Project:

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No impact. The proposed Project will not result in the loss of availability of a known mineral source.

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

No impact. The proposed Project will not affect any locally important mineral resource recovery site.

XIII. NOISE

Would the Project Result in:

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less than Significant Impact. Operation of the extraction well and proposed treatment facilities will result in some noise being generated when the facilities are operated. An enclosure will cover the well and the treatment equipment will be housed in a building to reduce noise impacts to less than significant levels.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less than Significant Impact. An increase in groundborne vibration or noise levels may occur during the construction of the proposed Project. However, the increased levels will be temporary and typical of construction activities. Construction will be limited to the allowable hours per City ordinance. Operation of the proposed Project will not result in an increase in groundborne vibration or noise levels. There will be no significant impact.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No impact. The proposed Project area is not located within two miles of a public airport or public use airport.

XIV. POPULATION AND HOUSING

Would the Project:

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

No impact. The proposed Project will not have any population growth inducing impact.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The proposed Project will not displace any existing housing.

XV. PUBLIC SERVICES

Would the Project:

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

- Fire Protection
- Police Protection
- Schools
- Parks
- Other Public Facilities

No impact. The proposed Project will not result in the need for new or physically altered governmental facilities including fire protection, police protection, schools, parks, or other public facilities.

XVI. RECREATION

Would the Project:

a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

No impact. The proposed Project will not increase the use of existing neighborhood and regional parks or other recreational facilities.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

No impact. The proposed Project does not include the construction or expansion of any recreational facilities.

XVII. TRANSPORTATION

Would the Project:

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Less than Significant. The Project would temporarily and briefly affect traffic patterns in the Project area during construction. Construction may require temporary lane closure tapers. Traffic control measures that comply with City and State requirements will be used to reduce impacts to be less than significant.

b) Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?

No impact. The proposed Project will not result in any conflict or be inconsistent with CEQA Guidelines.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

No impact. There will be no changes to current roadway design that will cause substantially increased hazards. The proposed Project will not substantially increase hazards due to a design feature or incompatible uses.

d) Result in inadequate emergency access?

No impact. The proposed Project will not result in inadequate emergency access.

XVIII. TRIBAL CULTURAL RESOURCES

- a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - i) Listed or eligible for listing in the California Register of Historical Resources, or in the local register of historical resources as defined in Public Resources Code Section 5020.1(k), or

No impact. The proposed Project will not result in any changes or adverse impacts to tribal cultural resources. No tribal cultural resources have been recorded or identified within the proposed Project area and the Project area is located within urban/developed land.

- ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

No impact. Based on a previous Environmental Impact Report prepared for the City of Azusa General Plan and Development Code, no prehistoric or historical cultural resources were recorded or identified within the proposed Project area. Therefore, there would be no impact to tribal cultural resources with cultural value to a California Native American Tribe that is listed or eligible for listing in the California Register of Historical Resources or in local register of historical resources.

XIX. UTILITIES AND SERVICE SYSTEMS

Would the Project:

- a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

No impact. The proposed Project includes rehabilitation of an inactive well that would produce raw water to be treated by the Project and used as drinking water. The Project will reactivate an existing water supply source and will not cause significant environmental effects

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years from existing entitlements and resources, or are new or expanded entitlements needed?

No impact. The proposed Project will not require new potable water supplies.

c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

No impact. The proposed Project will include small brine discharges to the sewer system. An application for service has been submitted to the Los Angeles County Sanitation District and there have been preliminary indications that there is sufficient capacity to handle the discharges from the Project.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals??

No impact. Construction of the proposed Project will only generate a minor amount of solid waste and will not have any impact to the serving landfill.

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

No impact. The proposed Project will comply with federal, state, and local statutes and regulations related to solid waste.

XX. WILDFIRE

Would the project:

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

No impact. The proposed Project will not substantially impair an adopted emergency response plan or emergency evacuation plan.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

No impact. The proposed Project will not exacerbate wildfire risks.

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that

may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

No impact. The proposed Project will not require the installation or maintenance of associated infrastructure that may exacerbate fire risks or that may result in temporary or ongoing impacts to the environment.

- d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

No impact. The proposed Project will not expose people or structures to significant risks.

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

- a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

No impact. The proposed Project does not have the potential to degrade the quality of the environment.

- b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively Considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

No impact. The proposed Project will be constructed in an area with other public service facilities. The Project will not have impacts that are individually limited, but cumulatively considerable.

- c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

No impact. The proposed Project does not have any environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.

Table 1
Azusa Light & Water Aspan Well Rehabilitation
Drain and Brine Pipeline Construction and VOC Treatment Plant Construction Schedule

Phase	Phase Type	Activity	Phase Type	Date Start	Date End	Working Days
1-1	Mobilization and Well Rehabilitation	Mobilization, Site Preparation, and Well Rehabilitation	Well Rehabilitation	7/22/2024	8/2/2024	10
1-2	Pump Test, Water Quality	Pump Test	Well Rehabilitation	10/11/2024	10/17/2024	5
2	Brine Pipeline Construction	Pipeline Excavation and Installation	Construction	1/1/2025	4/22/2025	80
3	Well Head and GAC Treatment Construction	Well Heads and VOCs Treatment Construction*	Construction	1/1/2025	6/17/2025	120
4	IX Treatment Construction	Treatment Construction	Construction	6/6/2025	9/25/2025	80
5	Treatment Startup and Testing	Treatment Test	Site Preparation	9/26/2025	10/9/2025	10

Note:

- * The construction process for GAC treatment involves a small excavation on the site to accommodate the installation of the drain line.

Table 2 - The CalEEMod Model Calculated Air Emissions of All analyzed Air Pollutants and CHG Emissions

Phase		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
unit		lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	MT/yr	MT/yr	MT/yr	MT/yr	MT/yr	MT/yr
1-1 Mobilization and Well Rehabilitation	Onsite	2.66	27.18	18.34	0.04	18.15	1.23	19.38	9.94	1.13	11.07	0.00	16.73	16.73	0.01	0.00	16.86
	Offsite	0.05	0.04	0.60	0.00	0.20	0.00	0.20	0.05	0.00	0.05	0.00	0.76	0.76	0.00	0.00	0.77
	Total	2.71	27.21	18.94	0.04	18.35	1.23	19.58	9.99	1.13	11.13	0.00	17.49	17.49	0.01	0.00	17.63
1-2 Pump Test, Water Quality	Onsite	2.90	28.80	20.75	0.04	18.24	1.31	19.55	9.95	1.21	11.16	0.00	9.22	9.22	0.00	0.00	9.28
	Offsite	0.06	0.04	0.67	0.00	0.22	0.00	0.22	0.06	0.00	0.06	0.00	0.42	0.42	0.00	0.00	0.43
	Total	2.96	28.84	21.42	0.04	18.46	1.31	19.77	10.01	1.21	11.22	0.00	9.64	9.64	0.00	0.00	9.71
2 Brine Pipeline Construction	Onsite	1.36	12.47	16.08	0.03	0.00	0.53	0.53	0.00	0.50	0.50	0.00	92.77	92.77	0.02	0.00	93.31
	Offsite	0.24	1.26	2.45	0.01	0.97	0.01	0.98	0.26	0.01	0.27	0.00	42.95	42.95	0.00	0.00	43.99
	Total	1.61	13.73	18.54	0.04	0.97	0.54	1.51	0.26	0.51	0.77	0.00	135.72	135.72	0.02	0.00	137.31
3 Well Head and GAC Treatment Construction	Onsite	1.37	12.47	16.08	0.03	0.00	0.53	0.53	0.00	0.50	0.50	0.00	139.15	139.15	0.03	0.00	139.97
	Offsite	1.46	7.57	14.73	0.07	30.37	0.06	30.43	7.59	0.06	7.65	0.00	386.56	386.56	0.01	0.03	395.95
	Total	2.83	20.04	30.81	0.09	30.37	0.59	30.95	7.59	0.55	8.15	0.00	525.71	525.71	0.04	0.03	535.92
4 IX Treatment Construction	Onsite	1.37	12.47	16.08	0.03	0.00	0.53	0.53	0.00	0.50	0.50	0.00	92.77	92.77	0.02	0.00	93.31
	Offsite	0.46	2.40	5.24	0.02	3.58	0.02	3.60	0.93	0.02	0.94	0.00	85.90	85.90	0.00	0.01	87.99
	Total	1.82	14.87	21.32	0.05	3.58	0.55	4.13	0.93	0.51	1.44	0.00	178.67	178.67	0.02	0.01	181.30
5 Treatment Startup and Testing	Onsite	1.56	15.93	10.45	0.02	12.13	0.69	12.82	6.63	0.63	7.26	0.00	10.24	10.24	0.00	0.00	10.33
	Offsite	0.03	0.02	0.31	0.00	0.11	0.00	0.11	0.03	0.00	0.03	0.00	0.41	0.41	0.00	0.00	0.41
	Total	1.59	15.95	10.77	0.02	12.24	0.69	12.93	6.66	0.63	7.29	0.00	10.65	10.65	0.00	0.00	10.74
Operational	Total	0.60	0.62	6.43	0.02	1.68	0.01	1.69	0.45	0.01	0.46	0.00	222.62	222.62	0.01	0.01	225.74
Construction Maximum Daily Emission		2.96	28.84	30.81	0.09	30.37	1.31	30.95	10.01	1.21	11.22	0.00	525.71	525.71	0.04	0.03	535.92
SCAQMD Construction Threshold ¹		75	100	550	150	150	150	150	55	55	55						
Exceed Threshold		No	No	No	No	No	No	No	No	No	No						
SCAQMD Operation Threshold ¹		55	50	550	150	150	150	150	55	55	55						
Exceed Threshold		No	No	No	No	No	No	No	No	No	No						
SCAQMD Operation Threshold ²																	3,000
Exceed Threshold		No	No	No	No	No	No	No	No	No	No						No

Note: Source of Threshold - SCAQMD Air Quality Significance Thresholds - April 2019
Source of CO_{2e} Threshold - Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD, October 2008)
lb/day - pound per day
MT/yr - metric tons per year

AQMD CalEEMod Air Emission Model

Azusa Light and Water

Aspan Well Rehabilitation and Treatment Project

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

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

**Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	36.00	1000sqft	0.83	36,000.00	0
Other Asphalt Surfaces	132.00	1000sqft	3.03	132,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company					
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Aspan Well Reactivation, Drain and Brine Pipeline Alignment, and VOCs Treatment Plant Construction

Construction Phase - Project schedule is based on the construction schedule

Grading - Well rehab and treatment construction is on a privately owned land with the total size less than 1 acre

Off-road Equipment - air compressor is required for pump test

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - 2 rubber tired dozers and 2 backhoes are sufficient for a relative small treatment plant startup and testing

Area Coating - Coating is not required for a treatment plant operations.

For conservative reasons, 10,000 square feet is assigned to both interior and exterior areas.

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, 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
tblAreaCoating	Area_Nonresidential_Exterior	18000	10000
tblAreaCoating	Area_Nonresidential_Interior	54000	10000
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	230.00	80.00
tblConstructionPhase	NumDays	230.00	120.00
tblConstructionPhase	NumDays	230.00	80.00
tblConstructionPhase	NumDays	5.00	10.00
tblGrading	AcresOfGrading	15.00	0.80
tblGrading	AcresOfGrading	7.50	0.80
tblGrading	AcresOfGrading	10.00	0.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

2.0 Emissions Summary

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0210	0.2082	0.1480	3.1000e-004	0.1379	9.4300e-003	0.1473	0.0750	8.6900e-003	0.0837	0.0000	27.1305	27.1305	8.1900e-003	3.0000e-005	27.3441
2025	0.3081	2.4344	3.5052	9.3600e-003	2.0218	0.0820	2.1038	0.5257	0.0771	0.6028	0.0000	850.7513	850.7513	0.0944	0.0408	865.2679
Maximum	0.3081	2.4344	3.5052	9.3600e-003	2.0218	0.0820	2.1038	0.5257	0.0771	0.6028	0.0000	850.7513	850.7513	0.0944	0.0408	865.2679

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0210	0.2082	0.1480	3.1000e-004	0.1379	9.4300e-003	0.1473	0.0750	8.6900e-003	0.0837	0.0000	27.1305	27.1305	8.1900e-003	3.0000e-005	27.3441
2025	0.3081	2.4344	3.5052	9.3600e-003	2.0218	0.0820	2.1038	0.5257	0.0771	0.6028	0.0000	850.7509	850.7509	0.0944	0.0408	865.2675
Maximum	0.3081	2.4344	3.5052	9.3600e-003	2.0218	0.0820	2.1038	0.5257	0.0771	0.6028	0.0000	850.7509	850.7509	0.0944	0.0408	865.2675

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, 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
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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-22-2024	10-21-2024	0.2078	0.2078
2	10-22-2024	1-21-2025	0.2866	0.2866
3	1-22-2025	4-21-2025	1.2242	1.2242
4	4-22-2025	7-21-2025	0.7356	0.7356
5	7-22-2025	9-30-2025	0.4248	0.4248
		Highest	1.2242	1.2242

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	0.1453	2.0000e-005	2.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1700e-003	4.1700e-003	1.0000e-005	0.0000	4.4400e-003
Energy	3.4900e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5029	34.5029	6.6000e-004	6.3000e-004	34.7079
Mobile	0.0960	0.1122	1.0455	2.4100e-003	0.2721	1.7100e-003	0.2738	0.0726	1.5900e-003	0.0742	0.0000	222.6208	222.6208	0.0146	9.2400e-003	225.7396
Waste						0.0000	0.0000		0.0000	0.0000	9.0615	0.0000	9.0615	0.5355	0.0000	22.4495
Water						0.0000	0.0000		0.0000	0.0000	2.6411	0.0000	2.6411	0.2713	6.4100e-003	11.3317
Total	0.2448	0.1440	1.0742	2.6000e-003	0.2721	4.1300e-003	0.2762	0.0726	4.0100e-003	0.0766	11.7027	257.1279	268.8305	0.8220	0.0163	294.2332

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1453	2.0000e-005	2.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1700e-003	4.1700e-003	1.0000e-005	0.0000	4.4400e-003
Energy	3.4900e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5029	34.5029	6.6000e-004	6.3000e-004	34.7079
Mobile	0.0960	0.1122	1.0455	2.4100e-003	0.2721	1.7100e-003	0.2738	0.0726	1.5900e-003	0.0742	0.0000	222.6208	222.6208	0.0146	9.2400e-003	225.7396
Waste						0.0000	0.0000		0.0000	0.0000	9.0615	0.0000	9.0615	0.5355	0.0000	22.4495
Water						0.0000	0.0000		0.0000	0.0000	2.6411	0.0000	2.6411	0.2713	6.4100e-003	11.3317
Total	0.2448	0.1440	1.0742	2.6000e-003	0.2721	4.1300e-003	0.2762	0.0726	4.0100e-003	0.0766	11.7027	257.1279	268.8305	0.8220	0.0163	294.2332

	ROG	NOx	CO	SO2	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	Mobilization and Well Rehabilitation	Site Preparation	7/22/2024	8/2/2024	5	10	Mobilization, Site preparation, and Well Rehabilitation
2	Pump Test, Water Quality	Site Preparation	10/11/2024	10/17/2024	5	5	Pump Test
3	Brine Pipeline Construction	Building Construction	1/1/2025	4/22/2025	5	80	Pipeline Escavation and Installation

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

4	Well Head and GAC Treatment Construction	Building Construction	1/1/2025	6/17/2025	5	120	Well Head and VOCs Treatment Construction
5	IX Treatment Construction	Building Construction	6/6/2025	9/25/2025	5	80	Nitrate Treatment Construction
6	Treatment Startup and Testing	Site Preparation	9/26/2025	10/9/2025	5	10	Treatment Plant Startup Testing

Acres of Grading (Site Preparation Phase): 0.8**Acres of Grading (Grading Phase): 0****Acres of Paving: 3.03****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
Mobilization and Well Rehabilitation	Rubber Tired Dozers	3	8.00	247	0.40
Mobilization and Well Rehabilitation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Pump Test, Water Quality	Air Compressors	1	8.00	78	0.48
Pump Test, Water Quality	Rubber Tired Dozers	3	8.00	247	0.40
Pump Test, Water Quality	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Brine Pipeline Construction	Cranes	1	7.00	231	0.29
Brine Pipeline Construction	Forklifts	3	8.00	89	0.20
Brine Pipeline Construction	Generator Sets	1	8.00	84	0.74
Brine Pipeline Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Brine Pipeline Construction	Welders	1	8.00	46	0.45
Well Head and GAC Treatment Construction	Cranes	1	7.00	231	0.29
Well Head and GAC Treatment Construction	Forklifts	3	8.00	89	0.20
Well Head and GAC Treatment Construction	Generator Sets	1	8.00	84	0.74
Well Head and GAC Treatment Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Well Head and GAC Treatment Construction	Welders	1	8.00	46	0.45

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Treatment Startup and Testing	Rubber Tired Dozers	2	8.00	247	0.40
Treatment Startup and Testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
IX Treatment Construction	Cranes	1	7.00	231	0.29
IX Treatment Construction	Forklifts	3	8.00	89	0.20
IX Treatment Construction	Generator Sets	1	8.00	84	0.74
IX Treatment Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
IX Treatment Construction	Welders	1	8.00	46	0.45

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
Mobilization and Well Rehabilitation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Test, Water Quality	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Brine Pipeline Construction	9	71.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Head and GAC Treatment Construction	9	71.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Head and GAC Treatment Construction	9	71.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Head and GAC Treatment Construction	9	71.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Head and GAC Treatment Construction	9	71.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Head and GAC Treatment Construction	9	71.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Head and GAC Treatment Construction	9	71.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Treatment Startup and Testing	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
IX Treatment Construction	9	71.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
IX Treatment Construction	9	71.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.2 Mobilization and Well Rehabilitation - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0908	0.0000	0.0908	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1359	0.0917	1.9000e-004		6.1500e-003	6.1500e-003		5.6600e-003	5.6600e-003	0.0000	16.7285	16.7285	5.4100e-003	0.0000	16.8638
Total	0.0133	0.1359	0.0917	1.9000e-004	0.0908	6.1500e-003	0.0969	0.0497	5.6600e-003	0.0554	0.0000	16.7285	16.7285	5.4100e-003	0.0000	16.8638

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.0000e-004	2.8500e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7628	0.7628	2.0000e-005	2.0000e-005	0.7690
Total	2.7000e-004	2.0000e-004	2.8500e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7628	0.7628	2.0000e-005	2.0000e-005	0.7690

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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 Mobilization and Well Rehabilitation - 2024****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0908	0.0000	0.0908	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1359	0.0917	1.9000e-004		6.1500e-003	6.1500e-003		5.6500e-003	5.6500e-003	0.0000	16.7285	16.7285	5.4100e-003	0.0000	16.8638
Total	0.0133	0.1359	0.0917	1.9000e-004	0.0908	6.1500e-003	0.0969	0.0497	5.6500e-003	0.0554	0.0000	16.7285	16.7285	5.4100e-003	0.0000	16.8638

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.0000e-004	2.8500e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7628	0.7628	2.0000e-005	2.0000e-005	0.7690
Total	2.7000e-004	2.0000e-004	2.8500e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7628	0.7628	2.0000e-005	2.0000e-005	0.7690

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Pump Test, Water Quality - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0456	0.0000	0.0456	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2500e-003	0.0720	0.0519	1.1000e-004		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	9.2154	9.2154	2.7500e-003	0.0000	9.2842
Total	7.2500e-003	0.0720	0.0519	1.1000e-004	0.0456	3.2800e-003	0.0489	0.0249	3.0300e-003	0.0279	0.0000	9.2154	9.2154	2.7500e-003	0.0000	9.2842

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.5800e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4238	0.4238	1.0000e-005	1.0000e-005	0.4272
Total	1.5000e-004	1.1000e-004	1.5800e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4238	0.4238	1.0000e-005	1.0000e-005	0.4272

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Pump Test, Water Quality - 2024****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0456	0.0000	0.0456	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2500e-003	0.0720	0.0519	1.1000e-004		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	9.2153	9.2153	2.7500e-003	0.0000	9.2842
Total	7.2500e-003	0.0720	0.0519	1.1000e-004	0.0456	3.2800e-003	0.0489	0.0249	3.0300e-003	0.0279	0.0000	9.2153	9.2153	2.7500e-003	0.0000	9.2842

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.5800e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4238	0.4238	1.0000e-005	1.0000e-005	0.4272
Total	1.5000e-004	1.1000e-004	1.5800e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4238	0.4238	1.0000e-005	1.0000e-005	0.4272

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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 Brine Pipeline Construction - 2025****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	0.0547	0.4988	0.6434	1.0800e-003		0.0211	0.0211		0.0199	0.0199	0.0000	92.7678	92.7678	0.0218	0.0000	93.3130
Total	0.0547	0.4988	0.6434	1.0800e-003		0.0211	0.0211		0.0199	0.0199	0.0000	92.7678	92.7678	0.0218	0.0000	93.3130

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	1.1900e-003	0.0450	0.0162	2.0000e-004	7.0600e-003	2.2000e-004	7.2800e-003	2.0400e-003	2.1000e-004	2.2500e-003	0.0000	19.6977	19.6977	6.9000e-004	2.8400e-003	20.5610
Worker	7.8700e-003	5.7300e-003	0.0837	2.5000e-004	0.0311	1.7000e-004	0.0313	8.2700e-003	1.6000e-004	8.4300e-003	0.0000	23.2534	23.2534	5.4000e-004	5.6000e-004	23.4336
Total	9.0600e-003	0.0507	0.1000	4.5000e-004	0.0382	3.9000e-004	0.0386	0.0103	3.7000e-004	0.0107	0.0000	42.9510	42.9510	1.2300e-003	3.4000e-003	43.9946

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Brine Pipeline Construction - 2025****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	0.0547	0.4988	0.6434	1.0800e-003		0.0211	0.0211		0.0199	0.0199	0.0000	92.7677	92.7677	0.0218	0.0000	93.3128
Total	0.0547	0.4988	0.6434	1.0800e-003		0.0211	0.0211		0.0199	0.0199	0.0000	92.7677	92.7677	0.0218	0.0000	93.3128

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	1.1900e-003	0.0450	0.0162	2.0000e-004	7.0600e-003	2.2000e-004	7.2800e-003	2.0400e-003	2.1000e-004	2.2500e-003	0.0000	19.6977	19.6977	6.9000e-004	2.8400e-003	20.5610
Worker	7.8700e-003	5.7300e-003	0.0837	2.5000e-004	0.0311	1.7000e-004	0.0313	8.2700e-003	1.6000e-004	8.4300e-003	0.0000	23.2534	23.2534	5.4000e-004	5.6000e-004	23.4336
Total	9.0600e-003	0.0507	0.1000	4.5000e-004	0.0382	3.9000e-004	0.0386	0.0103	3.7000e-004	0.0107	0.0000	42.9510	42.9510	1.2300e-003	3.4000e-003	43.9946

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Well Head and GAC Treatment Construction - 2025****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	0.0820	0.7482	0.9651	1.6200e-003		0.0317	0.0317		0.0298	0.0298	0.0000	139.1517	139.1517	0.0327	0.0000	139.9694
Total	0.0820	0.7482	0.9651	1.6200e-003		0.0317	0.0317		0.0298	0.0298	0.0000	139.1517	139.1517	0.0327	0.0000	139.9694

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	0.0107	0.4051	0.1461	1.8100e-003	0.2882	1.9700e-003	0.2902	0.0735	1.8800e-003	0.0754	0.0000	177.2791	177.2791	6.1900e-003	0.0256	185.0491
Worker	0.0708	0.0516	0.7536	2.2800e-003	1.4939	1.5700e-003	1.4955	0.3723	1.4400e-003	0.3738	0.0000	209.2802	209.2802	4.8500e-003	5.0400e-003	210.9021
Total	0.0815	0.4567	0.8997	4.0900e-003	1.7821	3.5400e-003	1.7857	0.4458	3.3200e-003	0.4491	0.0000	386.5593	386.5593	0.0110	0.0306	395.9512

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Well Head and GAC Treatment Construction - 2025****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	0.0820	0.7482	0.9651	1.6200e-003		0.0317	0.0317		0.0298	0.0298	0.0000	139.1515	139.1515	0.0327	0.0000	139.9693
Total	0.0820	0.7482	0.9651	1.6200e-003		0.0317	0.0317		0.0298	0.0298	0.0000	139.1515	139.1515	0.0327	0.0000	139.9693

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	0.0107	0.4051	0.1461	1.8100e-003	0.2882	1.9700e-003	0.2902	0.0735	1.8800e-003	0.0754	0.0000	177.2791	177.2791	6.1900e-003	0.0256	185.0491
Worker	0.0708	0.0516	0.7536	2.2800e-003	1.4939	1.5700e-003	1.4955	0.3723	1.4400e-003	0.3738	0.0000	209.2802	209.2802	4.8500e-003	5.0400e-003	210.9021
Total	0.0815	0.4567	0.8997	4.0900e-003	1.7821	3.5400e-003	1.7857	0.4458	3.3200e-003	0.4491	0.0000	386.5593	386.5593	0.0110	0.0306	395.9512

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 IX Treatment Construction - 2025****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	0.0547	0.4988	0.6434	1.0800e-003		0.0211	0.0211		0.0199	0.0199	0.0000	92.7678	92.7678	0.0218	0.0000	93.3130
Total	0.0547	0.4988	0.6434	1.0800e-003		0.0211	0.0211		0.0199	0.0199	0.0000	92.7678	92.7678	0.0218	0.0000	93.3130

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	2.3800e-003	0.0900	0.0325	4.0000e-004	0.0241	4.4000e-004	0.0245	6.5300e-003	4.2000e-004	6.9400e-003	0.0000	39.3954	39.3954	1.3800e-003	5.6800e-003	41.1220
Worker	0.0157	0.0115	0.1675	5.1000e-004	0.1162	3.5000e-004	0.1165	0.0298	3.2000e-004	0.0301	0.0000	46.5067	46.5067	1.0800e-003	1.1200e-003	46.8671
Total	0.0181	0.1015	0.1999	9.1000e-004	0.1403	7.9000e-004	0.1411	0.0363	7.4000e-004	0.0370	0.0000	85.9021	85.9021	2.4600e-003	6.8000e-003	87.9892

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 IX Treatment Construction - 2025****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	0.0547	0.4988	0.6434	1.0800e-003		0.0211	0.0211		0.0199	0.0199	0.0000	92.7677	92.7677	0.0218	0.0000	93.3128
Total	0.0547	0.4988	0.6434	1.0800e-003		0.0211	0.0211		0.0199	0.0199	0.0000	92.7677	92.7677	0.0218	0.0000	93.3128

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	2.3800e-003	0.0900	0.0325	4.0000e-004	0.0241	4.4000e-004	0.0245	6.5300e-003	4.2000e-004	6.9400e-003	0.0000	39.3954	39.3954	1.3800e-003	5.6800e-003	41.1220
Worker	0.0157	0.0115	0.1675	5.1000e-004	0.1162	3.5000e-004	0.1165	0.0298	3.2000e-004	0.0301	0.0000	46.5067	46.5067	1.0800e-003	1.1200e-003	46.8671
Total	0.0181	0.1015	0.1999	9.1000e-004	0.1403	7.9000e-004	0.1411	0.0363	7.4000e-004	0.0370	0.0000	85.9021	85.9021	2.4600e-003	6.8000e-003	87.9892

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.7 Treatment Startup and Testing - 2025****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					0.0607	0.0000	0.0607	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8000e-003	0.0797	0.0523	1.2000e-004		3.4400e-003	3.4400e-003		3.1700e-003	3.1700e-003	0.0000	10.2423	10.2423	3.3100e-003	0.0000	10.3251
Total	7.8000e-003	0.0797	0.0523	1.2000e-004	0.0607	3.4400e-003	0.0641	0.0332	3.1700e-003	0.0363	0.0000	10.2423	10.2423	3.3100e-003	0.0000	10.3251

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4094	0.4094	1.0000e-005	1.0000e-005	0.4126
Total	1.4000e-004	1.0000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4094	0.4094	1.0000e-005	1.0000e-005	0.4126

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.7 Treatment Startup and Testing - 2025****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					0.0607	0.0000	0.0607	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8000e-003	0.0797	0.0523	1.2000e-004		3.4400e-003	3.4400e-003		3.1700e-003	3.1700e-003	0.0000	10.2423	10.2423	3.3100e-003	0.0000	10.3251
Total	7.8000e-003	0.0797	0.0523	1.2000e-004	0.0607	3.4400e-003	0.0641	0.0332	3.1700e-003	0.0363	0.0000	10.2423	10.2423	3.3100e-003	0.0000	10.3251

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4094	0.4094	1.0000e-005	1.0000e-005	0.4126
Total	1.4000e-004	1.0000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4094	0.4094	1.0000e-005	1.0000e-005	0.4126

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0960	0.1122	1.0455	2.4100e-003	0.2721	1.7100e-003	0.2738	0.0726	1.5900e-003	0.0742	0.0000	222.6208	222.6208	0.0146	9.2400e-003	225.7396
Unmitigated	0.0960	0.1122	1.0455	2.4100e-003	0.2721	1.7100e-003	0.2738	0.0726	1.5900e-003	0.0742	0.0000	222.6208	222.6208	0.0146	9.2400e-003	225.7396

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	178.56	71.64	180.00	723,985	723,985
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	178.56	71.64	180.00	723,985	723,985

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318
Other Asphalt Surfaces	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	3.4900e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5029	34.5029	6.6000e-004	6.3000e-004	34.7079
NaturalGas Unmitigated	3.4900e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5029	34.5029	6.6000e-004	6.3000e-004	34.7079

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	646560	3.4900e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5029	34.5029	6.6000e-004	6.3000e-004	34.7079
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.4900e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5029	34.5029	6.6000e-004	6.3000e-004	34.7079

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	646560	3.4900e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5029	34.5029	6.6000e-004	6.3000e-004	34.7079
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.4900e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5029	34.5029	6.6000e-004	6.3000e-004	34.7079

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	390960	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	390960	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1453	2.0000e-005	2.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1700e-003	4.1700e-003	1.0000e-005	0.0000	4.4400e-003
Unmitigated	0.1453	2.0000e-005	2.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1700e-003	4.1700e-003	1.0000e-005	0.0000	4.4400e-003

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1386					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1700e-003	4.1700e-003	1.0000e-005	0.0000	4.4400e-003
Total	0.1453	2.0000e-005	2.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1700e-003	4.1700e-003	1.0000e-005	0.0000	4.4400e-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	tons/yr										MT/yr					
Architectural Coating	6.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1386					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1700e-003	4.1700e-003	1.0000e-005	0.0000	4.4400e-003
Total	0.1453	2.0000e-005	2.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1700e-003	4.1700e-003	1.0000e-005	0.0000	4.4400e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.6411	0.2713	6.4100e-003	11.3317
Unmitigated	2.6411	0.2713	6.4100e-003	11.3317

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	8.325 / 0	2.6411	0.2713	6.4100e-003	11.3317
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.6411	0.2713	6.4100e-003	11.3317

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	8.325 / 0	2.6411	0.2713	6.4100e-003	11.3317
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.6411	0.2713	6.4100e-003	11.3317

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.0615	0.5355	0.0000	22.4495
Unmitigated	9.0615	0.5355	0.0000	22.4495

Aspan Well Rehabilitation, Drain and Brine Pipeline Construction. VOC and Nitrate Treatment - Los Angeles-South Coast County, 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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	44.64	9.0615	0.5355	0.0000	22.4495
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		9.0615	0.5355	0.0000	22.4495

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	44.64	9.0615	0.5355	0.0000	22.4495
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		9.0615	0.5355	0.0000	22.4495

9.0 Operational Offroad

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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	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
